

Sheet1

Terre

Masse (kg):	5.972E+024
DistanceMoyenSoleil (m) :	149597870000
DistanceMiniDuSoleil (m) :	
DistanceMaxiDuSoleil (m) :	
DistMinimalDeLaTerre (m) :	
DistMaximalDeLaTerre (m) :	
Vitesse Moyenne (m/s) :	29790
Rayon Moyen (m) :	6378150
Densit, (kg/mü) :	5515
Ann,eSolaire (sec) :	31557600

Gravit, de surface ,quat (m/secý):

Vitesse de lib,ration ,quat (m/s):

6.67259E-11 Nmý/kgý Gt = G

r=Raxe

v = D/t

D = 2PIRaxe

F = ma

a = vý/r

F = vým/r

F = Dým/Raxetý

86400 sec

24 heures = t

6.67259E-11	Gt = G
5.972E+024	Masse (kg):
6378150	6378150 Rayon Moyen (m) :
9.79545879254575	F = GMm/Rý
0.0223947797680445	Fc=ma
	V=4ôRü/3
26606908.28046	D = 2PIRaxe
707927568244812	Dý
7464960000	tý
4234620.9732279	Raxe=RtCOS(Lnø)
30.2964984396109	Ftotal = F-Fc

6375380.55352353	10000	9086
6375411.03389417	9900	8986
6375441.51426481	9800	8886
Ri		
(mŠtres)	(pieds)	(pieds)

Sheet1

6375776.79834187	8700	7786
6375807.27871251	8600	7686
6375837.75908315	8500	7586
6375868.23945379	8400	7486
6375898.71982443	8300	7386
6375929.20019507	8200	7286
6375959.68056572	8100	7186
6375990.16093636	8000	7086
6376020.641307	7900	6986
6376051.12167764	7800	6886
6376081.60204828	7700	6786
6376112.08241892	7600	6686
6376142.56278956	7500	6586
6376173.04316021	7400	6486
6376203.52353085	7300	6386
6376234.00390149	7200	6286
6376264.48427213	7100	6186
6376294.96464277	7000	6086
6376325.44501341	6900	5986
6376355.92538405	6800	5886
6376386.40575469	6700	5786
6376416.88612534	6600	5686
6376447.36649598	6500	5586
6376477.84686662	6400	5486
6376508.32723726	6300	5386
6376538.8076079	6200	5286
6376569.28797854	6100	5186
6376599.76834918	6000	5086
6376630.24871983	5900	4986
6376660.72909047	5800	4886
6376691.20946111	5700	4786
6376721.68983175	5600	4686
6376752.17020239	5500	4586
6376782.65057303	5400	4486
6376813.13094367	5300	4386
6376843.61131431	5200	4286
6376874.09168496	5100	4186
6376904.5720556	5000	4086
6376935.05242624	4900	3986
6376965.53279688	4800	3886
6376996.01316752	4700	3786
6377026.49353816	4600	3686
6377056.9739088	4500	3586
6377087.45427944	4400	3486
6377117.93465008	4300	3386
6377148.41502073	4200	3286
6377178.89539137	4100	3186
6377209.37576201	4000	3086
6377239.85613265	3900	2986

Sheet1

6377270.33650329	3800	2886
6377300.81687393	3700	2786
6377331.29724457	3600	2686
6377361.77761522	3500	2586
6377392.25798586	3400	2486
6377422.7383565	3300	2386
6377453.21872714	3200	2286
6377483.69909778	3100	2186
6377514.17946842	3000	2086
6377544.65983906	2900	1986
6377575.1402097	2800	1886
6377605.62058035	2700	1786
6377636.10095099	2600	1686
6377666.58132163	2500	1586
6377697.06169227	2400	1486
6377727.54206291	2300	1386
6377758.02243355	2200	1286
6377788.50280419	2100	1186
6377818.98317484	2000	1086
6377849.46354548	1900	986
6377879.94391612	1800	886
6377910.42428676	1700	786
6377940.9046574	1600	686
6377971.38502804	1500	586
6378001.86539868	1400	486
6378032.34576932	1300	386
6378062.82613997	1200	286
6378093.30651061	1100	186
6378123.78688125	1000	86
6378154.26725189	900	-14
6378184.74762253	800	-114
6378215.22799317	700	-214
6378245.70836381	600	-314
6378276.18873446	500	-414
6378306.6691051	400	-514
6378337.14947574	300	-614
6378367.62984638	200	-714
6378398.11021702	100	-814
6378428.59058766	0	-914
6378459.0709583	-100	-1014

Sheet1

Ri (mStres)	(pieds)	(pieds)
6368095.74494026	33900	32986
6368126.2253109	33800	32886
6368156.70568154	33700	32786
6368187.18605218	33600	32686
6368217.66642282	33500	32586
6368248.14679347	33400	32486
6368278.62716411	33300	32386
6368309.10753475	33200	32286
6368339.58790539	33100	32186
6368370.06827603	33000	32086
6368400.54864667	32900	31986
6368431.02901731	32800	31886
6368461.50938795	32700	31786
6368491.9897586	32600	31686
6368522.47012924	32500	31586
6368552.95049988	32400	31486
6368583.43087052	32300	31386
6368613.91124116	32200	31286
6368644.3916118	32100	31186
6368674.87198244	32000	31086
6368705.35235309	31900	30986
6368735.83272373	31800	30886
6368766.31309437	31700	30786
6368796.79346501	31600	30686
6368827.27383565	31500	30586
6368857.75420629	31400	30486
6368888.23457693	31300	30386
6368918.71494757	31200	30286
6368949.19531822	31100	30186
6368979.67568886	31000	30086
6369010.1560595	30900	29986
6369040.63643014	30800	29886
6369071.11680078	30700	29786
6369101.59717142	30600	29686
6369132.07754206	30500	29586
6369162.55791271	30400	29486
6369193.03828335	30300	29386
6369223.51865399	30200	29286
6369253.99902463	30100	29186
6369284.47939527	30000	29086
6369314.95976591	29900	28986
6369345.44013655	29800	28886
6369375.92050719	29700	28786
6369406.40087783	29600	28686
6369436.88124848	29500	28586
6369467.36161912	29400	28486
6369497.84198976	29300	28386

Sheet1

6369528.3223604	29200	28286
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6369589.28310168	29000	28086
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6369680.72421361	28700	27786
6369711.20458425	28600	27686
6369741.68495489	28500	27586
6369772.16532553	28400	27486
6369802.64569617	28300	27386
6369833.12606681	28200	27286
6369863.60643745	28100	27186
6369894.0868081	28000	27086
6369924.56717874	27900	26986
6369955.04754938	27800	26886
6369985.52792002	27700	26786
6370016.00829066	27600	26686
6370046.4886613	27500	26586
6370076.96903194	27400	26486
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6370137.92977323	27200	26286
6370168.41014387	27100	26186
6370198.89051451	27000	26086
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6370259.85125579	26800	25886
6370290.33162643	26700	25786
6370320.81199707	26600	25686
6370351.29236772	26500	25586
6370381.77273836	26400	25486
6370412.253109	26300	25386
6370442.73347964	26200	25286
6370473.21385028	26100	25186
6370503.69422092	26000	25086
6370534.17459156	25900	24986
6370564.6549622	25800	24886
6370595.13533285	25700	24786
6370625.61570349	25600	24686
6370656.09607413	25500	24586
6370686.57644477	25400	24486
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6370747.53718605	25200	24286
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6370838.97829798	24900	23986
6370869.45866862	24800	23886
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6370991.38015118	24400	23486

Sheet1

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6371082.82126311	24100	23186
6371113.30163375	24000	23086
6371143.78200439	23900	22986
6371174.26237503	23800	22886
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6371235.22311631	23600	22686
6371265.70348696	23500	22586
6371296.1838576	23400	22486
6371326.66422824	23300	22386
6371357.14459888	23200	22286
6371387.62496952	23100	22186
6371418.10534016	23000	22086
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6371479.06608144	22800	21886
6371509.54645208	22700	21786
6371540.02682273	22600	21686
6371570.50719337	22500	21586
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6371631.46793465	22300	21386
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6371692.42867593	22100	21186
6371722.90904657	22000	21086
6371753.38941722	21900	20986
6371783.86978786	21800	20886
6371814.3501585	21700	20786
6371844.83052914	21600	20686
6371875.31089978	21500	20586
6371905.79127042	21400	20486
6371936.27164106	21300	20386
6371966.7520117	21200	20286
6371997.23238235	21100	20186
6372027.71275299	21000	20086
6372058.19312363	20900	19986
6372088.67349427	20800	19886
6372119.15386491	20700	19786
6372149.63423555	20600	19686
6372180.11460619	20500	19586
6372210.59497684	20400	19486
6372241.07534748	20300	19386
6372271.55571812	20200	19286
6372302.03608876	20100	19186
6372332.5164594	20000	19086
6372362.99683004	19900	18986
6372393.47720068	19800	18886
6372423.95757132	19700	18786
6372454.43794197	19600	18686
6372484.91831261	19500	18586

Sheet1

6372515.39868325	19400	18486
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6372576.35942453	19200	18286
6372606.83979517	19100	18186
6372637.32016581	19000	18086
6372667.80053646	18900	17986
6372698.2809071	18800	17886
6372728.76127774	18700	17786
6372759.24164838	18600	17686
6372789.72201902	18500	17586
6372820.20238966	18400	17486
6372850.6827603	18300	17386
6372881.16313094	18200	17286
6372911.64350159	18100	17186
6372942.12387223	18000	17086
6372972.60424287	17900	16986
6373003.08461351	17800	16886
6373033.56498415	17700	16786
6373064.04535479	17600	16686
6373094.52572543	17500	16586
6373125.00609608	17400	16486
6373155.48646672	17300	16386
6373185.96683736	17200	16286
6373216.447208	17100	16186
6373246.92757864	17000	16086
6373277.40794928	16900	15986
6373307.88831992	16800	15886
6373338.36869056	16700	15786
6373368.8490612	16600	15686
6373399.32943185	16500	15586
6373429.80980249	16400	15486
6373460.29017313	16300	15386
6373490.77054377	16200	15286
6373521.25091441	16100	15186
6373551.73128505	16000	15086
6373582.21165569	15900	14986
6373612.69202633	15800	14886
6373643.17239698	15700	14786
6373673.65276762	15600	14686
6373704.13313826	15500	14586
6373734.6135089	15400	14486
6373765.09387954	15300	14386
6373795.57425018	15200	14286
6373826.05462082	15100	14186
6373856.53499147	15000	14086
6373887.01536211	14900	13986
6373917.49573275	14800	13886
6373947.97610339	14700	13786
6373978.45647403	14600	13686

Sheet1

6374008.93684467	14500	13586
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6374069.89758595	14300	13386
6374100.3779566	14200	13286
6374130.85832724	14100	13186
6374161.33869788	14000	13086
6374191.81906852	13900	12986
6374222.29943916	13800	12886
6374252.7798098	13700	12786
6374283.26018044	13600	12686
6374313.74055109	13500	12586
6374344.22092173	13400	12486
6374374.70129237	13300	12386
6374405.18166301	13200	12286
6374435.66203365	13100	12186
6374466.14240429	13000	12086
6374496.62277493	12900	11986
6374527.10314557	12800	11886
6374557.58351622	12700	11786
6374588.06388686	12600	11686
6374618.5442575	12500	11586
6374649.02462814	12400	11486
6374679.50499878	12300	11386
6374709.98536942	12200	11286
6374740.46574006	12100	11186
6374770.94611071	12000	11086
6374801.42648135	11900	10986
6374831.90685199	11800	10886
6374862.38722263	11700	10786
6374892.86759327	11600	10686
6374923.34796391	11500	10586
6374953.82833455	11400	10486
6374984.30870519	11300	10386
6375014.78907584	11200	10286
6375045.26944648	11100	10186
6375075.74981712	11000	10086
6375106.23018776	10900	9986
6375136.7105584	10800	9886
6375167.19092904	10700	9786
6375197.67129968	10600	9686
6375228.15167032	10500	9586
6375258.63204097	10400	9486
6375289.11241161	10300	9386
6375319.59278225	10200	9286
6375350.07315289	10100	9186
6375380.55352353	10000	9086
6375411.03389417	9900	8986
6375441.51426481	9800	8886
6375471.99463545	9700	8786

Sheet1

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6375563.43574738	9400	8486
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6375624.39648866	9200	8286
6375654.8768593	9100	8186
6375685.35722994	9000	8086
6375715.83760059	8900	7986
6375746.31797123	8800	7886
6375776.79834187	8700	7786
6375807.27871251	8600	7686
6375837.75908315	8500	7586
6375868.23945379	8400	7486
6375898.71982443	8300	7386
6375929.20019507	8200	7286
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6375990.16093636	8000	7086
6376020.641307	7900	6986
6376051.12167764	7800	6886
6376081.60204828	7700	6786
6376112.08241892	7600	6686
6376142.56278956	7500	6586
6376173.04316021	7400	6486
6376203.52353085	7300	6386
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6376325.44501341	6900	5986
6376355.92538405	6800	5886
6376386.40575469	6700	5786
6376416.88612534	6600	5686
6376447.36649598	6500	5586
6376477.84686662	6400	5486
6376508.32723726	6300	5386
6376538.8076079	6200	5286
6376569.28797854	6100	5186
6376599.76834918	6000	5086
6376630.24871983	5900	4986
6376660.72909047	5800	4886
6376691.20946111	5700	4786
6376721.68983175	5600	4686
6376752.17020239	5500	4586
6376782.65057303	5400	4486
6376813.13094367	5300	4386
6376843.61131431	5200	4286
6376874.09168496	5100	4186
6376904.5720556	5000	4086
6376935.05242624	4900	3986
6376965.53279688	4800	3886

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6376996.01316752	4700	3786
6377026.49353816	4600	3686
6377056.9739088	4500	3586
6377087.45427944	4400	3486
6377117.93465008	4300	3386
6377148.41502073	4200	3286
6377178.89539137	4100	3186
6377209.37576201	4000	3086
6377239.85613265	3900	2986
6377270.33650329	3800	2886
6377300.81687393	3700	2786
6377331.29724457	3600	2686
6377361.77761522	3500	2586
6377392.25798586	3400	2486
6377422.7383565	3300	2386
6377453.21872714	3200	2286
6377483.69909778	3100	2186
6377514.17946842	3000	2086
6377544.65983906	2900	1986
6377575.1402097	2800	1886
6377605.62058035	2700	1786
6377636.10095099	2600	1686
6377666.58132163	2500	1586
6377697.06169227	2400	1486
6377727.54206291	2300	1386
6377758.02243355	2200	1286
6377788.50280419	2100	1186
6377818.98317484	2000	1086
6377849.46354548	1900	986
6377879.94391612	1800	886
6377910.42428676	1700	786
6377940.9046574	1600	686
6377971.38502804	1500	586
6378001.86539868	1400	486
6378032.34576932	1300	386
6378062.82613997	1200	286
6378093.30651061	1100	186
6378123.78688125	1000	86
6378154.26725189	900	-14
6378184.74762253	800	-114
6378215.22799317	700	-214
6378245.70836381	600	-314
6378276.18873446	500	-414
6378306.6691051	400	-514
6378337.14947574	300	-614
6378367.62984638	200	-714
6378398.11021702	100	-814
6378428.59058766	0	-914
6378459.0709583	-100	-1014

Sheet1

Terre

	Masse (kg):	5.972E+024
DistanceMoyenSoleil (m) :		149597870000
DistanceMiniDuSoleil (m) :		
DistanceMaxiDuSoleil (m) :		
DistMinimalDeLaTerre (m) :		
DistMaximalDeLaTerre (m) :		
Vitesse Moyenne (m/s) :		29790
Rayon Moyen (m) :		6378150
Densit, (kg/mü) :		5515
Ann,eSolaire (sec) :		31557600

Gravit, de surface ,quat (m/secý):

Vitesse de lib,ration ,quat (m/s):

6.67259E-11 Nmý/kgý Gt = G

r=Raxe

v = D/t

D = 2PIRaxe

F = ma

a = vý/r

F = vým/r

F = Dým/Raxetý

86400 sec 24 heures =

1950000

Ez

6.67259E-11

Gt = G

5.972E+024

Masse (kg):

6378150

6378150 Rayon Moyen (m) :

9.79545879254575

F = GMm/Rý

0.0223947797680445

Fc=ma

26606908.28046

V=4ôRú/3

707927568244812

D = 2PIRaxe

7464960000

Dý

4234620.9732279

tý

30.2964984396109

Raxe=RtCos(Lnø)

4428150

Ftotal = F-Fc

1.50295436138173

Rz

1.00285982422121E-10

Vt / Vz Facteur de proportion

3.97350721582104E+024

Gz

MasseZ (kg):

Rayon Moyen (m) :

F = GzMzm/Rý

Fc=ma

Sheet1

$$V=4\hat{\sigma}(R\ddot{u}-Rz\ddot{u})/3$$

$$D = 2PIRax_e$$

Dý

tý

$$Rax_e=RtCos(Ln\emptyset)$$

$$Ftotal = F-Fc$$

Ri (mŠtres)	(pieds)	(pieds)
6368095.74494026	33900	32986
6368126.2253109	33800	32886
6368156.70568154	33700	32786
6368187.18605218	33600	32686
6368217.66642282	33500	32586
6368248.14679347	33400	32486
6368278.62716411	33300	32386
6368309.10753475	33200	32286
6368339.58790539	33100	32186
6368370.06827603	33000	32086
6368400.54864667	32900	31986
6368431.02901731	32800	31886
6368461.50938795	32700	31786
6368491.9897586	32600	31686
6368522.47012924	32500	31586
6368552.95049988	32400	31486
6368583.43087052	32300	31386
6368613.91124116	32200	31286
6368644.3916118	32100	31186
6368674.87198244	32000	31086
6368705.35235309	31900	30986
6368735.83272373	31800	30886
6368766.31309437	31700	30786
6368796.79346501	31600	30686
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6374862.38722263	11700	10786
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6374923.34796391	11500	10586
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6374984.30870519	11300	10386
6375014.78907584	11200	10286
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6375228.15167032	10500	9586

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6375411.03389417	9900	8986
6375441.51426481	9800	8886
6375471.99463545	9700	8786
6375502.4750061	9600	8686
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6376416.88612534	6600	5686
6376447.36649598	6500	5586
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6376508.32723726	6300	5386
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6376904.5720556	5000	4086
6376935.05242624	4900	3986
6376965.53279688	4800	3886
6376996.01316752	4700	3786
6377026.49353816	4600	3686
6377056.9739088	4500	3586
6377087.45427944	4400	3486
6377117.93465008	4300	3386
6377148.41502073	4200	3286
6377178.89539137	4100	3186
6377209.37576201	4000	3086
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6377361.77761522	3500	2586
6377392.25798586	3400	2486
6377422.7383565	3300	2386
6377453.21872714	3200	2286
6377483.69909778	3100	2186
6377514.17946842	3000	2086
6377544.65983906	2900	1986
6377575.1402097	2800	1886
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6377666.58132163	2500	1586
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6377940.9046574	1600	686
6377971.38502804	1500	586
6378001.86539868	1400	486
6378032.34576932	1300	386
6378062.82613997	1200	286
6378093.30651061	1100	186
6378123.78688125	1000	86
6378154.26725189	900	-14
6378184.74762253	800	-114
6378215.22799317	700	-214

Sheet1

6378245.70836381	600	-314
6378276.18873446	500	-414
6378306.6691051	400	-514
6378337.14947574	300	-614
6378367.62984638	200	-714
6378398.11021702	100	-814
6378428.59058766	0	-914
6378459.0709583	-100	-1014

Terre

	Masse (kg):	5.972E+024
DistanceMoyenSoleil (m) :		149597870000
DistanceMiniDuSoleil (m) :		
DistanceMaxiDuSoleil (m) :		
DistMinimalDeLaTerre (m) :		
DistMaximalDeLaTerre (m) :		
Vitesse Moyenne (m/s) :		29790
Rayon Moyen (m) :		6378150
Densit, (kg/m ³) :		5515
Ann,eSolaire (sec) :		31557600

Gravit, de surface ,quat (m/sec²):

Vitesse de lib,ration ,quat (m/s):

6.67259E-11 Nm²/kg² Gt = G

r=Raxe
v = D/t
D = 2PIRaxe
F = ma
a = v²/r
F = v²m/r
F = D²m/Raxet²
24 heures =

86400 sec

3000000	Ez
6.67259E-11	Gt = G
5.972E+024	Masse (kg):
6378150	6378150 Rayon Moyen (m) :
9.79545879254575	F = GMm/R ²
0.0223947797680445	Fc=ma
	V=4 π R ³ /3
26606908.28046	D = 2PIRaxe
707927568244812	D ²
7464960000	t ²
4234620.9732279	Raxe=RtCos(Ln θ)

Sheet1

30.2964984396109
 3378150
 1.17450481017836
 7.836989051348E-11
 5.08469607637717E+024

Ftotal = F-Fc
 Rz
 Vt / Vz Facteur de proportion
 Gz
 MasseZ (kg):
 Rayon Moyen (m) :
 $F = Gz \cdot Mzm / Rý$
 $Fc = ma$
 $V = 4 \cdot \hat{\sigma} (Rü - Rzü) / 3$
 $D = 2 \cdot \text{PI} \cdot R_{axe}$
 Dý
 tý
 $R_{axe} = Rt \cdot \text{Cos}(Ln\emptyset)$
 Ftotal = F-Fc

Ri (mŠtres)	(pieds)	(pieds)
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6368126.2253109	33800	32886
6368156.70568154	33700	32786
6368187.18605218	33600	32686
6368217.66642282	33500	32586
6368248.14679347	33400	32486
6368278.62716411	33300	32386
6368309.10753475	33200	32286
6368339.58790539	33100	32186
6368370.06827603	33000	32086
6368400.54864667	32900	31986
6368431.02901731	32800	31886
6368461.50938795	32700	31786
6368491.9897586	32600	31686
6368522.47012924	32500	31586
6368552.95049988	32400	31486
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6368857.75420629	31400	30486
6368888.23457693	31300	30386
6368918.71494757	31200	30286
6368949.19531822	31100	30186
6368979.67568886	31000	30086
6369010.1560595	30900	29986

Sheet1

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6369162.55791271	30400	29486
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6369223.51865399	30200	29286
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6369375.92050719	29700	28786
6369406.40087783	29600	28686
6369436.88124848	29500	28586
6369467.36161912	29400	28486
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6369528.3223604	29200	28286
6369558.80273104	29100	28186
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6369619.76347232	28900	27986
6369650.24384297	28800	27886
6369680.72421361	28700	27786
6369711.20458425	28600	27686
6369741.68495489	28500	27586
6369772.16532553	28400	27486
6369802.64569617	28300	27386
6369833.12606681	28200	27286
6369863.60643745	28100	27186
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6369985.52792002	27700	26786
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6370198.89051451	27000	26086
6370229.37088515	26900	25986
6370259.85125579	26800	25886
6370290.33162643	26700	25786
6370320.81199707	26600	25686
6370351.29236772	26500	25586
6370381.77273836	26400	25486
6370412.253109	26300	25386
6370442.73347964	26200	25286
6370473.21385028	26100	25186
6370503.69422092	26000	25086

Sheet1

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6370686.57644477	25400	24486
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6371631.46793465	22300	21386
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6371692.42867593	22100	21186
6371722.90904657	22000	21086
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Sheet1

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6372180.11460619	20500	19586
6372210.59497684	20400	19486
6372241.07534748	20300	19386
6372271.55571812	20200	19286
6372302.03608876	20100	19186
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6372789.72201902	18500	17586
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6372942.12387223	18000	17086
6372972.60424287	17900	16986
6373003.08461351	17800	16886
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ConstanteConventionnelleGravitationnelle

ConstanteConventionnelleGravitationnelle
Terre

$F_c = D \cdot y / R_{axe}$

$F_c = 4 \cdot \pi \cdot I \cdot R_{axe} / t_y$

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Sheet1

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ConstanteConventionnelleGravitationnelle

t

□paisseur □corce Terrestre Moyenne (m)
ConstanteConventionnelleGravitationnelle
Terre

$$F_c = D \gamma_m / R \alpha \gamma_t$$

$$F_c = 4 \pi I \gamma R \alpha \gamma_t$$

ConstanteGravitationnelleTerreCreuse1675km
Terre

$$F_c = D \gamma_m / R \alpha \gamma_t$$

$$F_c = 4 \pi I \gamma R \alpha \gamma_t$$

Sheet1

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6378150
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31558118.4
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9.78
11180

ConstanteConventionnelleGravitationnelle

t

paisseur corce Terrestre Moyenne (m)
ConstanteConventionnelleGravitationnelle
Terre

$F_c = D \cdot \rho / R \cdot \omega^2$

$F_c = 4 \pi^2 \rho R \omega^2$

Sheet1

ConstanteGravitationnelleTerreCreuse1675km
Terre

$$F_c = D \cdot y / R_{axet} \cdot y$$

$$F_c = 4 \cdot \pi \cdot I \cdot R_{axe} / t \cdot y$$

(mŠtres)	Raxe (mŠtres)	Rýaxe (mŠtres)ý
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Sheet1

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544.379419653743	4234259.54546156	17928953898332.3
513.899049012436	4234279.7821786	17929125273766.4
483.418678371129	4234300.01889564	17929296650019.6
452.938307729822	4234320.25561268	17929468027091.8
422.457937088515	4234340.49232972	17929639404983.1
391.977566447208	4234360.72904676	17929810783693.4
361.497195805901	4234380.9657638	17929982163222.8
331.016825164594	4234401.20248084	17930153543571.2
300.536454523287	4234421.43919788	17930324924738.6
270.05608388198	4234441.67591492	17930496306725.1
239.575713240673	4234461.91263196	17930667689530.7
209.095342599366	4234482.149349	17930839073155.3
178.614971958059	4234502.38606604	17931010457599

Sheet1

148.134601316752	4234522.62278308	17931181842861.7
117.654230675445	4234542.85950012	17931353228943.5
87.173860034138	4234563.09621716	17931524615844.3
56.693489392831	4234583.3329342	17931696003564.1
26.213118751524	4234603.56965124	17931867392103
-4.26725188978298	4234623.80636828	17932038781461
-34.74762253109	4234644.04308532	17932210171638
-65.227993172397	4234664.27980236	17932381562634
-95.708363813704	4234684.5165194	17932552954449.1
-126.188734455011	4234704.75323644	17932724347083.3
-156.669105096318	4234724.98995348	17932895740536.5
-187.149475737625	4234745.22667052	17933067134808.8
-217.629846378932	4234765.46338756	17933238529900.1
-248.110217020239	4234785.7001046	17933409925810.4
-278.590587661546	4234805.93682164	17933581322539.8
-309.070958302853	4234826.17353868	17933752720088.3

SIMULATION

Terre Pleine

0.0460722784135714	30.4382123845883	1.08544281821546E+021	5.98621714245829E+024
0.0460724986827947	30.4386489573182	1.08545838663086E+021	5.98630300226919E+024
0.0460727189520179	30.4390855342225	1.08547395519512E+021	5.98638886290108E+024
Fc (pour 3.1 kg)	F (pour 3.1 kg)	V (mStres)ü	M = V*Dt (kg)

Sheet1

0.0460751419134735	30.4888770769974	1.08564521922716E+021	5.9873333840378E+024
0.0460753621826967	30.4888564681096	1.08566078957784E+021	5.98741925452178E+024
0.0460755824519199	30.4888329476452	1.08567636007739E+021	5.9875051258268E+024
0.0460758027211432	30.4888065156878	1.08569193072581E+021	5.98759099795286E+024
0.0460760229903664	30.488777172321	1.08570750152311E+021	5.98767687089996E+024
0.0460762432595896	30.4887449176282	1.08572307246928E+021	5.9877627446681E+024
0.0460764635288129	30.4887097516929	1.08573864356433E+021	5.98784861925729E+024
0.0460766837980361	30.4886716745988	1.08575421480826E+021	5.98793449466753E+024
0.0460769040672593	30.4886306864294	1.08576978620106E+021	5.98802037089884E+024
0.0460771243364826	30.4885867872681	1.08578535774274E+021	5.98810624795121E+024
0.0460773446057058	30.4885399771985	1.0858009294333E+021	5.98819212582464E+024
0.046077564874929	30.4884902563041	1.08581650127274E+021	5.98827800451914E+024
0.0460777851441523	30.4884376246685	1.08583207326105E+021	5.98836388403471E+024
0.0460780054133755	30.488382082375	1.08584764539825E+021	5.98844976437136E+024
0.0460782256825987	30.4883236295073	1.08586321768433E+021	5.98853564552909E+024
0.0460784459518219	30.4882622661488	1.08587879011929E+021	5.9886215275079E+024
0.0460786662210452	30.4881979923831	1.08589436270314E+021	5.98870741030781E+024
0.0460788864902684	30.4881308082936	1.08590993543587E+021	5.9887932939288E+024
0.0460791067594916	30.488060713964	1.08592550831748E+021	5.9888791783709E+024
0.0460793270287149	30.4879877094775	1.08594108134798E+021	5.98896506363409E+024
0.0460795472979381	30.4879125217368	1.08595665452736E+021	5.98905094971839E+024
0.0460797675671614	30.4878351508045	1.08597222785563E+021	5.9891368366238E+024
0.0460799878363846	30.4877555967432	1.08598780133279E+021	5.98922272435031E+024
0.0460802081056078	30.4876738596156	1.08600337495883E+021	5.98930861289795E+024
0.046080428374831	30.4875899394843	1.08601894873376E+021	5.98939450226671E+024
0.0460806486440543	30.4875038364119	1.08603452265759E+021	5.98948039245659E+024
0.0460808689132775	30.4874155504611	1.0860500967303E+021	5.98956628346759E+024
0.0460810891825007	30.4873250816946	1.0860656709519E+021	5.98965217529973E+024
0.046081309451724	30.4872324301749	1.08608124532239E+021	5.98973806795301E+024
0.0460815297209472	30.4871375959648	1.08609681984178E+021	5.98982396142742E+024
0.0460817499901704	30.4870405791267	1.08611239451006E+021	5.98990985572298E+024
0.0460819702593937	30.4869413797235	1.08612796932723E+021	5.98999575083969E+024
0.0460821905286169	30.4868399978176	1.0861435442933E+021	5.99008164677754E+024
0.0460824107978401	30.4867364334717	1.08615911940826E+021	5.99016754353656E+024
0.0460826310670634	30.4866306867485	1.08617469467212E+021	5.99025344111673E+024
0.0460828513362866	30.4865227577105	1.08619027008487E+021	5.99033933951807E+024
0.0460830716055098	30.4864126464204	1.08620584564652E+021	5.99042523874057E+024
0.0460832918747331	30.4863003529408	1.08622142135707E+021	5.99051113878425E+024
0.0460835121439563	30.4861858773344	1.08623699721652E+021	5.9905970396491E+024
0.0460837324131795	30.4860692196636	1.08625257322486E+021	5.99068294133512E+024
0.0460839526824028	30.4859503799912	1.08626814938211E+021	5.99076884384234E+024
0.046084172951626	30.4858293583798	1.08628372568826E+021	5.99085474717074E+024
0.0460843932208492	30.485706154892	1.0862993021433E+021	5.99094065132033E+024
0.0460846134900725	30.4855807695903	1.08631487874725E+021	5.99102655629111E+024
0.0460848337592957	30.4854532025374	1.08633045550011E+021	5.99111246208309E+024
0.0460850540285189	30.4853234537959	1.08634603240186E+021	5.99119836869628E+024
0.0460852742977422	30.4851915234284	1.08636160945252E+021	5.99128427613067E+024
0.0460854945669654	30.4850574114975	1.08637718665209E+021	5.99137018438627E+024
0.0460857148361886	30.4849211180658	1.08639276400056E+021	5.99145609346309E+024

Sheet1

0.0460859351054118	30.4847826431959	1.08640834149794E+021	5.99154200336113E+024
0.0460861553746351	30.4846441710422	1.08642391914422E+021	5.99162791408038E+024
0.0460863756438583	30.4845057016048	1.08643949693941E+021	5.99171382562087E+024
0.0460865959130816	30.4843672348836	1.08645507488351E+021	5.99179973798258E+024
0.0460868161823048	30.4842287708786	1.08647065297652E+021	5.99188565116553E+024
0.046087036451528	30.4840903095897	1.08648623121844E+021	5.99197156516971E+024
0.0460872567207512	30.4839518510168	1.08650180960927E+021	5.99205747999514E+024
0.0460874769899745	30.48381339516	1.08651738814901E+021	5.99214339564182E+024
0.0460876972591977	30.4836749420193	1.08653296683767E+021	5.99222931210974E+024
0.0460879175284209	30.4835364915945	1.08654854567523E+021	5.99231522939891E+024
0.0460881377976442	30.4833980438856	1.08656412466171E+021	5.99240114750935E+024
0.0460883580668674	30.4832595988926	1.08657970379711E+021	5.99248706644105E+024
0.0460885783360906	30.4831211566155	1.08659528308142E+021	5.99257298619401E+024
0.0460887986053139	30.4829827170541	1.08661086251464E+021	5.99265890676823E+024
0.0460890188745371	30.4828442802086	1.08662644209678E+021	5.99274482816374E+024
0.0460892391437603	30.4827058460788	1.08664202182784E+021	5.99283075038052E+024
0.0460894594129836	30.4825674146646	1.08665760170781E+021	5.99291667341858E+024
0.0460896796822068	30.4824289859662	1.0866731817367E+021	5.99300259727793E+024
0.04608989995143	30.4822905599833	1.08668876191452E+021	5.99308852195856E+024
0.0460901202206533	30.4821521367161	1.08670434224125E+021	5.99317444746049E+024
0.0460903404898765	30.4820137161644	1.0867199227169E+021	5.99326037378372E+024
0.0460905607590997	30.4818752983281	1.08673550334148E+021	5.99334630092825E+024
0.046090781028323	30.4817368832074	1.08675108411497E+021	5.99343222889407E+024
0.0460910012975462	30.481598470802	1.08676666503739E+021	5.99351815768121E+024
0.0460912215667694	30.4814600611121	1.08678224610873E+021	5.99360408728967E+024
0.0460914418359926	30.4813216541375	1.086797827329E+021	5.99369001771943E+024
0.0460916621052159	30.4811832498781	1.08681340869819E+021	5.99377594897052E+024
0.0460918823744391	30.4810448483341	1.08682899021631E+021	5.99386188104293E+024
0.0460921026436624	30.4809064495053	1.08684457188335E+021	5.99394781393668E+024
0.0460923229128856	30.4807680533917	1.08686015369932E+021	5.99403374765175E+024
0.0460925431821088	30.4806231052103	1.08687573566422E+021	5.99411968218816E+024
0.0460927634513321	30.4804716051489	1.08689131777804E+021	5.99420561754591E+024
0.0460929837205553	30.4803135533956	1.0869069000408E+021	5.994291553725E+024
0.0460932039897785	30.4801489501382	1.08692248245248E+021	5.99437749072544E+024
0.0460934242590018	30.4799777955645	1.0869380650131E+021	5.99446342854724E+024
0.046093644528225	30.4798000898625	1.08695364772264E+021	5.99454936719038E+024
0.0460938647974482	30.47961583322	1.08696923058112E+021	5.99463530665489E+024
0.0460940850666714	30.479425025825	1.08698481358853E+021	5.99472124694076E+024
0.0460943053358947	30.4792276678653	1.08700039674488E+021	5.994807188048E+024
0.0460945256051179	30.4793733178703	1.08701598005016E+021	5.99489312997661E+024

1.93836916444548E-05

SIMULATION

Terre Pleine

Sheet1

Fc (pour 3.1 kg)	F (pour 3.1 kg)	V (mŠtres)ü	M = V*Dt (kg)
0.0460196340692189	30.463460459854	1.08172623470461E+021	5.96572018439593E+024
0.0460198543384422	30.4635839407399	1.08174176756202E+021	5.96580584810451E+024
0.0460200746076654	30.4637074218395	1.08175730056811E+021	5.96589151263315E+024
0.0460202948768886	30.4638309031529	1.08177283372291E+021	5.96597717798183E+024
0.0460205151461118	30.4639543846799	1.08178836702639E+021	5.96606284415056E+024
0.0460207354153351	30.4640778664208	1.08180390047858E+021	5.96614851113934E+024
0.0460209556845583	30.4642013483753	1.08181943407945E+021	5.96623417894819E+024
0.0460211759537815	30.4643248305436	1.08183496782903E+021	5.96631984757711E+024
0.0460213962230048	30.4644483129256	1.08185050172731E+021	5.96640551702609E+024
0.046021616492228	30.4645717955213	1.08186603577428E+021	5.96649118729514E+024
0.0460218367614513	30.4646952783308	1.08188156996995E+021	5.96657685838427E+024
0.0460220570306745	30.4648187613539	1.08189710431432E+021	5.96666253029348E+024
0.0460222772998977	30.4649422445908	1.08191263880739E+021	5.96674820302277E+024
0.0460224975691209	30.4650657280414	1.08192817344917E+021	5.96683387657216E+024
0.0460227178383442	30.4651892117057	1.08194370823964E+021	5.96691955094163E+024
0.0460229381075674	30.4653126955837	1.08195924317882E+021	5.9670052261312E+024
0.0460231583767906	30.4654361796754	1.0819747782667E+021	5.96709090214086E+024
0.0460233786460139	30.4655596639808	1.08199031350329E+021	5.96717657897064E+024
0.0460235989152371	30.4656831484999	1.08200584888858E+021	5.96726225662052E+024
0.0460238191844603	30.4658066332326	1.08202138442258E+021	5.96734793509051E+024
0.0460240394536836	30.4659301181791	1.08203692010528E+021	5.96743361438062E+024
0.0460242597229068	30.4660536033393	1.08205245593669E+021	5.96751929449084E+024
0.04602447999213	30.4661770887131	1.08206799191681E+021	5.96760497542119E+024
0.0460247002613533	30.4663005743006	1.08208352804563E+021	5.96769065717167E+024
0.0460249205305765	30.4664240601018	1.08209906432317E+021	5.96777633974227E+024
0.0460251407997997	30.4665475461166	1.08211460074941E+021	5.96786202313301E+024
0.046025361069023	30.4666710323452	1.08213013732437E+021	5.96794770734389E+024
0.0460255813382462	30.4667945187874	1.08214567404804E+021	5.96803339237492E+024
0.0460258016074694	30.4669180054432	1.08216121092042E+021	5.96811907822609E+024
0.0460260218766927	30.4670414923128	1.08217674794151E+021	5.96820476489741E+024
0.0460262421459159	30.4671649793959	1.08219228511131E+021	5.96829045238889E+024
0.0460264624151391	30.4672884666928	1.08220782242983E+021	5.96837614070052E+024
0.0460266826843623	30.4674119542032	1.08222335989707E+021	5.96846182983232E+024
0.0460269029535856	30.4675354419273	1.08223889751302E+021	5.96854751978428E+024
0.0460271232228088	30.467658929865	1.08225443527768E+021	5.96863321055641E+024
0.0460273434920321	30.4677824180163	1.08226997319106E+021	5.96871890214872E+024
0.0460275637612553	30.4679059063812	1.08228551125317E+021	5.96880459456121E+024
0.0460277840304785	30.4680293949597	1.08230104946398E+021	5.96889028779388E+024
0.0460280042997017	30.4681528837518	1.08231658782352E+021	5.96897598184673E+024
0.046028224568925	30.4682763727575	1.08233212633178E+021	5.96906167671977E+024
0.0460284448381482	30.4683998619768	1.08234766498876E+021	5.96914737241301E+024
0.0460286651073714	30.4685233514097	1.08236320379446E+021	5.96923306892645E+024
0.0460288853765947	30.4686468410562	1.08237874274888E+021	5.96931876626009E+024
0.0460291056458179	30.4687703309163	1.08239428185203E+021	5.96940446441393E+024
0.0460293259150411	30.46889382099	1.08240982110389E+021	5.96949016338798E+024
0.0460295461842644	30.4690173112772	1.08242536050449E+021	5.96957586318225E+024
0.0460297664534876	30.469140801778	1.0824409000538E+021	5.96966156379673E+024

Sheet1

0.0460299867227108	30.4692642924924	1.08245643975185E+021	5.96974726523143E+024
0.0460302069919341	30.4693877834204	1.08247197959861E+021	5.96983296748636E+024
0.0460304272611573	30.4695112745619	1.08248751959411E+021	5.96991867056152E+024
0.0460306475303805	30.469634765917	1.08250305973833E+021	5.97000437445691E+024
0.0460308677996038	30.4697582574857	1.08251860003129E+021	5.97009007917254E+024
0.046031088068827	30.4698817492679	1.08253414047297E+021	5.97017578470841E+024
0.0460313083380502	30.4700052412637	1.08254968106338E+021	5.97026149106453E+024
0.0460315286072735	30.470128733473	1.08256522180252E+021	5.97034719824089E+024
0.0460317488764967	30.4702522258959	1.08258076269039E+021	5.97043290623751E+024
0.0460319691457199	30.4703757185323	1.082596303727E+021	5.97051861505438E+024
0.0460321894149432	30.4704992113823	1.08261184491233E+021	5.97060432469152E+024
0.0460324096841664	30.4706227044458	1.0826273862464E+021	5.97069003514891E+024
0.0460326299533896	30.4707461977229	1.08264292772921E+021	5.97077574642658E+024
0.0460328502226129	30.4708696912134	1.08265846936075E+021	5.97086145852452E+024
0.0460330704918361	30.4709931849176	1.08267401114102E+021	5.97094717144273E+024
0.0460332907610593	30.4711166788352	1.08268955307003E+021	5.97103288518123E+024
0.0460335110302825	30.4712401729663	1.08270509514778E+021	5.97111859974001E+024
0.0460337312995058	30.4713636673109	1.08272063737427E+021	5.97120431511908E+024
0.046033951568729	30.471487161869	1.08273617974949E+021	5.97129003131844E+024
0.0460341718379523	30.4716106566406	1.08275172227345E+021	5.97137574833809E+024
0.0460343921071755	30.4717341516256	1.08276726494616E+021	5.97146146617805E+024
0.0460346123763987	30.4718576468242	1.0827828077676E+021	5.97154718483831E+024
0.046034832645622	30.4719811422362	1.08279835073778E+021	5.97163290431887E+024
0.0460350529148452	30.4721046378617	1.08281389385671E+021	5.97171862461975E+024
0.0460352731840684	30.4722281337006	1.08282943712438E+021	5.97180434574095E+024
0.0460354934532917	30.472351629753	1.08284498054079E+021	5.97189006768246E+024
0.0460357137225149	30.472475126019	1.08286052410595E+021	5.9719757904443E+024
0.0460359339917381	30.4725986224983	1.08287606781985E+021	5.97206151402646E+024
0.0460361542609613	30.4727221191911	1.08289161168249E+021	5.97214723842895E+024
0.0460363745301846	30.4728456160974	1.08290715569389E+021	5.97223296365179E+024
0.0460365947994078	30.4729691132171	1.08292269985403E+021	5.97231868969496E+024
0.046036815068631	30.4730926105503	1.08293824416291E+021	5.97240441655847E+024
0.0460370353378543	30.4732161080969	1.08295378862055E+021	5.97249014424233E+024
0.0460372556070775	30.4733396058569	1.08296933322693E+021	5.97257587274654E+024
0.0460374758763007	30.4734631038304	1.08298487798207E+021	5.9726616020711E+024
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0.0460383569531937	30.4739570978587	1.08304705849012E+021	5.97300452757299E+024
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0.0460396785685331	30.4746980953039	1.0831403337148E+021	5.97351894043713E+024
0.0460398988377563	30.474821595625	1.08315588010623E+021	5.97360467878586E+024
0.0460401191069795	30.4749450961595	1.08317142664642E+021	5.97369041795499E+024
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0.046040559645426	30.4751920978685	1.08320252017307E+021	5.97386189875447E+024

Sheet1

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0.0460414407223189	30.475686103847	1.0832647090115E+021	5.97420487019842E+024
0.0460416609915422	30.475809605875	1.08328025659301E+021	5.97429061511047E+024
0.0460418812607654	30.4759331081163	1.08329580432329E+021	5.97437636084296E+024
0.0460421015299886	30.476056610571	1.08331135220234E+021	5.97446210739588E+024
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0.0460427623376583	30.4764271192151	1.08335799673206E+021	5.97471935197731E+024
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0.0460447447606674	30.477538656667	1.08349793835476E+021	5.97549113002648E+024
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0.0460509122989179	30.480996883659	1.08393338935926E+021	5.97789264231634E+024
0.0460511325681411	30.4811203948576	1.08394894333827E+021	5.97797842251057E+024
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Sheet1

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0.046052894721927	30.4821084921201	1.084073380527E+021	5.97866469360639E+024
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0.0460535555295967	30.4824746615028	1.08412004692795E+021	5.97892205880767E+024
0.0460537757988199	30.4825952615903	1.08413560269254E+021	5.97900784884938E+024
0.0460539960680431	30.482715133526	1.08415115860594E+021	5.97909363971174E+024
0.0460542163372664	30.4828342773307	1.08416671466813E+021	5.97917943139475E+024
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0.0460555379526058	30.4835338505795	1.08426005416623E+021	5.97969419872677E+024
0.046055758221829	30.4836478980528	1.08427561127007E+021	5.97977999615446E+024
0.0460559784910523	30.4837612175622	1.08429116852273E+021	5.97986579440284E+024
0.0460561987602755	30.4838738091288	1.08430672592419E+021	5.97995159347191E+024
0.0460564190294987	30.4839856727734	1.08432228347446E+021	5.98003739336167E+024
0.046056639298722	30.4840968085169	1.08433784117355E+021	5.98012319407212E+024
0.0460568595679452	30.4842072163802	1.08435339902145E+021	5.98020899560328E+024
0.0460570798371684	30.4843168963841	1.08436895701816E+021	5.98029479795514E+024
0.0460573001063916	30.4844258485497	1.08438451516368E+021	5.98038060112771E+024
0.0460575203756149	30.4845340728977	1.08440007345802E+021	5.98046640512099E+024
0.0460577406448381	30.4846415694491	1.08441563190118E+021	5.98055220993499E+024
0.0460579609140613	30.4847483382247	1.08443119049315E+021	5.9806380155697E+024
0.0460581811832846	30.4848543792454	1.08444674923393E+021	5.98072382202514E+024
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0.0460610446831866	30.4861462892339	1.0846490264068E+021	5.98183938063351E+024
0.0460612649524098	30.4862363135328	1.0846645872311E+021	5.98192519857949E+024
0.0460614852216331	30.4863248816908	1.08468014820422E+021	5.98201101734626E+024
0.0460617054908563	30.4864119937498	1.08469570932617E+021	5.98209683693381E+024
0.0460619257600795	30.4864976497515	1.08471127059695E+021	5.98218265734216E+024
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Sheet1

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0.0460630271061957	30.4869040903633	1.0847890791833E+021	5.98261177169587E+024
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0.0460636879138654	30.4871304847172	1.0848357661211E+021	5.98286925015784E+024
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0.0460650095292048	30.4875439711589	1.08492914401526E+021	5.98338422924417E+024
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0.0460654500676512	30.4876701560823	1.08496027117069E+021	5.98355589550637E+024
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0.04606809329833	30.4883049905504	1.0851470466061E+021	5.98458596203266E+024
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Sheet1

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0.0460740405673573	30.4889364563951	1.08556736970684E+021	5.98690404393324E+024
0.0460742608365805	30.4889304056822	1.08558293931317E+021	5.98698991031212E+024
0.0460744811058038	30.4889214430167	1.08559850906836E+021	5.98707577751201E+024
0.046074701375027	30.4889095684824	1.08561407897242E+021	5.98716164553291E+024
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0.0460764635288129	30.4887097549513	1.08573864356433E+021	5.98784861925729E+024
0.0460766837980361	30.4886716773559	1.08575421480826E+021	5.98793449466753E+024
0.0460769040672593	30.4886306887269	1.08576978620106E+021	5.98802037089884E+024
0.0460771243364826	30.4885867891479	1.08578535774274E+021	5.98810624795121E+024
0.0460773446057058	30.4885399787023	1.0858009294333E+021	5.98819212582464E+024
0.046077564874929	30.4884902574737	1.08581650127274E+021	5.98827800451914E+024
0.0460777851441523	30.4884376255456	1.08583207326105E+021	5.98836388403471E+024
0.0460780054133755	30.4883820830016	1.08584764539825E+021	5.98844976437136E+024
0.0460782256825987	30.488323629925	1.08586321768433E+021	5.98853564552909E+024
0.0460784459518219	30.4882622663994	1.08587879011929E+021	5.9886215275079E+024
0.0460786662210452	30.4881979925084	1.08589436270314E+021	5.98870741030781E+024
0.0460788864902684	30.4881308083354	1.08590993543587E+021	5.9887932939288E+024
0.0460791067594916	30.488060713964	1.08592550831748E+021	5.9888791783709E+024
0.0460793270287149	30.4879877094775	1.08594108134798E+021	5.98896506363409E+024
0.0460795472979381	30.4879125217368	1.08595665452736E+021	5.98905094971839E+024
0.0460797675671614	30.4878351508045	1.08597222785563E+021	5.9891368366238E+024
0.0460799878363846	30.4877555967432	1.08598780133279E+021	5.98922272435031E+024
0.0460802081056078	30.4876738596156	1.08600337495883E+021	5.98930861289795E+024
0.046080428374831	30.4875899394843	1.08601894873376E+021	5.98939450226671E+024
0.0460806486440543	30.4875038364119	1.08603452265759E+021	5.98948039245659E+024
0.0460808689132775	30.4874155504611	1.0860500967303E+021	5.98956628346759E+024
0.0460810891825007	30.4873250816946	1.0860656709519E+021	5.98965217529973E+024
0.046081309451724	30.4872324301749	1.08608124532239E+021	5.98973806795301E+024
0.0460815297209472	30.4871375959648	1.08609681984178E+021	5.98982396142742E+024
0.0460817499901704	30.4870405791267	1.08611239451006E+021	5.98990985572298E+024
0.0460819702593937	30.4869413797235	1.08612796932723E+021	5.98999575083969E+024
0.0460821905286169	30.4868399978176	1.0861435442933E+021	5.99008164677754E+024
0.0460824107978401	30.4867364334717	1.08615911940826E+021	5.99016754353656E+024
0.0460826310670634	30.4866306867485	1.08617469467212E+021	5.99025344111673E+024
0.0460828513362866	30.4865227577105	1.08619027008487E+021	5.99033933951807E+024
0.0460830716055098	30.4864126464204	1.08620584564652E+021	5.99042523874057E+024
0.0460832918747331	30.4863003529408	1.08622142135707E+021	5.99051113878425E+024
0.0460835121439563	30.4861858773344	1.08623699721652E+021	5.9905970396491E+024
0.0460837324131795	30.4860692196636	1.08625257322486E+021	5.99068294133512E+024

Sheet1

0.0460839526824028	30.4859503799912	1.08626814938211E+021	5.99076884384234E+024
0.046084172951626	30.4858293583798	1.08628372568826E+021	5.99085474717074E+024
0.0460843932208492	30.485706154892	1.0862993021433E+021	5.99094065132033E+024
0.0460846134900725	30.4855807695903	1.08631487874725E+021	5.99102655629111E+024
0.0460848337592957	30.4854532025374	1.08633045550011E+021	5.99111246208309E+024
0.0460850540285189	30.4853234537959	1.08634603240186E+021	5.99119836869628E+024
0.0460852742977422	30.4851915234284	1.08636160945252E+021	5.99128427613067E+024
0.0460854945669654	30.4850574114975	1.08637718665209E+021	5.99137018438627E+024
0.0460857148361886	30.4849211180658	1.08639276400056E+021	5.99145609346309E+024
0.0460859351054118	30.4847826431959	1.08640834149794E+021	5.99154200336113E+024
0.0460861553746351	30.4846441710422	1.08642391914422E+021	5.99162791408038E+024
0.0460863756438583	30.4845057016048	1.08643949693941E+021	5.99171382562087E+024
0.0460865959130816	30.4843672348836	1.08645507488351E+021	5.99179973798258E+024
0.0460868161823048	30.4842287708786	1.08647065297652E+021	5.99188565116553E+024
0.046087036451528	30.4840903095897	1.08648623121844E+021	5.99197156516971E+024
0.0460872567207512	30.4839518510168	1.08650180960927E+021	5.99205747999514E+024
0.0460874769899745	30.48381339516	1.08651738814901E+021	5.99214339564182E+024
0.0460876972591977	30.4836749420193	1.08653296683767E+021	5.99222931210974E+024
0.0460879175284209	30.4835364915945	1.08654854567523E+021	5.99231522939891E+024
0.0460881377976442	30.4833980438856	1.08656412466171E+021	5.99240114750935E+024
0.0460883580668674	30.4832595988926	1.08657970379711E+021	5.99248706644105E+024
0.0460885783360906	30.4831211566155	1.08659528308142E+021	5.99257298619401E+024
0.0460887986053139	30.4829827170541	1.08661086251464E+021	5.99265890676823E+024
0.0460890188745371	30.4828442802086	1.08662644209678E+021	5.99274482816374E+024
0.0460892391437603	30.4827058460788	1.08664202182784E+021	5.99283075038052E+024
0.0460894594129836	30.4825674146646	1.08665760170781E+021	5.99291667341858E+024
0.0460896796822068	30.4824289859662	1.0866731817367E+021	5.99300259727793E+024
0.04608989995143	30.4822905599833	1.08668876191452E+021	5.99308852195856E+024
0.0460901202206533	30.4821521367161	1.08670434224125E+021	5.99317444746049E+024
0.0460903404898765	30.4820137161644	1.0867199227169E+021	5.99326037378372E+024
0.0460905607590997	30.4818752983281	1.08673550334148E+021	5.99334630092825E+024
0.046090781028323	30.4817368832074	1.08675108411497E+021	5.99343222889407E+024
0.0460910012975462	30.481598470802	1.08676666503739E+021	5.99351815768121E+024
0.0460912215667694	30.4814600611121	1.08678224610873E+021	5.99360408728967E+024
0.0460914418359926	30.4813216541375	1.086797827329E+021	5.99369001771943E+024
0.0460916621052159	30.4811832498781	1.08681340869819E+021	5.99377594897052E+024
0.0460918823744391	30.4810448483341	1.08682899021631E+021	5.99386188104293E+024
0.0460921026436624	30.4809064495053	1.08684457188335E+021	5.99394781393668E+024
0.0460923229128856	30.4807680533917	1.08686015369932E+021	5.99403374765175E+024
0.0460925431821088	30.4806231052103	1.08687573566422E+021	5.99411968218816E+024
0.0460927634513321	30.4804716051489	1.08689131777804E+021	5.99420561754591E+024
0.0460929837205553	30.4803135533956	1.0869069000408E+021	5.994291553725E+024
0.0460932039897785	30.4801489501382	1.08692248245248E+021	5.99437749072544E+024
0.0460934242590018	30.4799777955645	1.0869380650131E+021	5.99446342854724E+024
0.046093644528225	30.4798000898625	1.08695364772264E+021	5.99454936719038E+024
0.0460938647974482	30.47961583322	1.08696923058112E+021	5.99463530665489E+024
0.0460940850666714	30.479425025825	1.08698481358853E+021	5.99472124694076E+024
0.0460943053358947	30.4792276678653	1.08700039674488E+021	5.994807188048E+024
0.0460945256051179	30.4793733178703	1.08701598005016E+021	5.99489312997661E+024

1.93836916444548E-05

Sheet1

	Terre Creuse	1675 km	
Fc (pour 3.1 kg)	F (pour 3.1 kg)	V (mŠtres)ü	M = V*Dt (kg)
0.0460196340692189	30.4077573232661	7.18015950889933E+020	3.95985796915798E+024
0.0460198543384422	30.4080901140058	7.18031483747337E+020	3.95994363286656E+024
0.0460200746076654	30.4084229029531	7.18047016753435E+020	3.96002929739519E+024
0.0460202948768886	30.408755690108	7.18062549908228E+020	3.96011496274387E+024
0.0460205151461118	30.4090884754704	7.18078083211714E+020	3.9602006289126E+024
0.0460207354153351	30.4094212590405	7.18093616663897E+020	3.96028629590139E+024
0.0460209556845583	30.4097540408182	7.18109150264776E+020	3.96037196371024E+024
0.0460211759537815	30.4100868208037	7.18124684014353E+020	3.96045763233916E+024
0.0460213962230048	30.4104195989968	7.18140217912627E+020	3.96054330178814E+024
0.046021616492228	30.4107523753978	7.18155751959599E+020	3.96062897205719E+024
0.0460218367614513	30.4110851500066	7.18171286155271E+020	3.96071464314632E+024
0.0460220570306745	30.4114179228232	7.18186820499642E+020	3.96080031505553E+024
0.0460222772998977	30.4117506938477	7.18202354992715E+020	3.96088598778482E+024
0.0460224975691209	30.4120834630801	7.18217889634489E+020	3.9609716613342E+024
0.0460227178383442	30.4124162305204	7.18233424424964E+020	3.96105733570368E+024
0.0460229381075674	30.4127489961688	7.18248959364142E+020	3.96114301089325E+024
0.0460231583767906	30.4130817600251	7.18264494452024E+020	3.96122868690291E+024
0.0460233786460139	30.4134145220896	7.1828002968861E+020	3.96131436373269E+024
0.0460235989152371	30.4137472823621	7.18295565073901E+020	3.96140004138257E+024
0.0460238191844603	30.4140800408428	7.18311100607898E+020	3.96148571985256E+024
0.0460240394536836	30.4144127975316	7.18326636290601E+020	3.96157139914266E+024
0.0460242597229068	30.4147455524287	7.1834217212201E+020	3.96165707925289E+024
0.04602447999213	30.415078305534	7.18357708102128E+020	3.96174276018324E+024
0.0460247002613533	30.4154110568475	7.18373244230955E+020	3.96182844193371E+024
0.0460249205305765	30.4157438063694	7.1838878050849E+020	3.96191412450432E+024
0.0460251407997997	30.4160765540996	7.18404316934735E+020	3.96199980789506E+024
0.046025361069023	30.4164093000382	7.1841985350969E+020	3.96208549210594E+024
0.0460255813382462	30.4167420441852	7.18435390233358E+020	3.96217117713697E+024
0.0460258016074694	30.4170747865407	7.18450927105737E+020	3.96225686298814E+024
0.0460260218766927	30.4174075271046	7.18466464126828E+020	3.96234254965946E+024
0.0460262421459159	30.4177402658771	7.18482001296634E+020	3.96242823715094E+024
0.0460264624151391	30.4180730028582	7.18497538615153E+020	3.96251392546257E+024
0.0460266826843623	30.4184057380478	7.18513076082387E+020	3.96259961459437E+024
0.0460269029535856	30.418738471446	7.18528613698337E+020	3.96268530454633E+024
0.0460271232228088	30.4190712030528	7.18544151463003E+020	3.96277099531846E+024
0.0460273434920321	30.4194039328683	7.18559689376386E+020	3.96285668691077E+024
0.0460275637612553	30.4197366608925	7.18575227438487E+020	3.96294237932326E+024
0.0460277840304785	30.4200693871254	7.18590765649306E+020	3.96302807255592E+024
0.0460280042997017	30.420402111567	7.18606304008844E+020	3.96311376660878E+024

Sheet1

0.046028224568925	30.4207348342175	7.18621842517103E+020	3.96319946148182E+024
0.0460284448381482	30.4210675550769	7.18637381174082E+020	3.96328515717506E+024
0.0460286651073714	30.421400274145	7.18652919979781E+020	3.96337085368849E+024
0.0460288853765947	30.4217329914221	7.18668458934203E+020	3.96345655102213E+024
0.0460291056458179	30.4220657069082	7.18683998037348E+020	3.96354224917597E+024
0.0460293259150411	30.4223984206032	7.18699537289216E+020	3.96362794815003E+024
0.0460295461842644	30.4227311325073	7.18715076689808E+020	3.96371364794429E+024
0.0460297664534876	30.4230638426204	7.18730616239125E+020	3.96379934855877E+024
0.0460299867227108	30.4233965509426	7.18746155937168E+020	3.96388504999348E+024
0.0460302069919341	30.4237292574739	7.18761695783936E+020	3.96397075224841E+024
0.0460304272611573	30.4240619622144	7.18777235779432E+020	3.96405645532357E+024
0.0460306475303805	30.4243946651641	7.18792775923656E+020	3.96414215921896E+024
0.0460308677996038	30.424727366323	7.18808316216607E+020	3.96422786393459E+024
0.046031088068827	30.4250600656912	7.18823856658289E+020	3.96431356947046E+024
0.0460313083380502	30.4253927632686	7.18839397248699E+020	3.96439927582657E+024
0.0460315286072735	30.4257254590555	7.1885493798784E+020	3.96448498300294E+024
0.0460317488764967	30.4260581530517	7.18870478875713E+020	3.96457069099956E+024
0.0460319691457199	30.4263908452573	7.18886019912317E+020	3.96465639981643E+024
0.0460321894149432	30.4267235356724	7.18901561097654E+020	3.96474210945356E+024
0.0460324096841664	30.4270562242969	7.18917102431724E+020	3.96482781991096E+024
0.0460326299533896	30.427388911131	7.18932643914529E+020	3.96491353118863E+024
0.0460328502226129	30.4277215961746	7.18948185546068E+020	3.96499924328656E+024
0.0460330704918361	30.4280542794278	7.18963727326343E+020	3.96508495620478E+024
0.0460332907610593	30.4283869608906	7.18979269255354E+020	3.96517066994328E+024
0.0460335110302825	30.428719640563	7.18994811333102E+020	3.96525638450206E+024
0.0460337312995058	30.4290523184451	7.19010353559588E+020	3.96534209988113E+024
0.046033951568729	30.4293849945368	7.19025895934811E+020	3.96542781608048E+024
0.0460341718379523	30.4297176688383	7.19041438458774E+020	3.96551353310014E+024
0.0460343921071755	30.4300503413495	7.19056981131477E+020	3.9655992509401E+024
0.0460346123763987	30.4303830120705	7.1907252395292E+020	3.96568496960035E+024
0.046034832645622	30.4307156810014	7.19088066923105E+020	3.96577068908092E+024
0.0460350529148452	30.4310483481421	7.19103610042031E+020	3.9658564093818E+024
0.0460352731840684	30.4313810134928	7.191191533097E+020	3.96594213050299E+024
0.0460354934532917	30.4317136770534	7.19134696726112E+020	3.96602785244451E+024
0.0460357137225149	30.4320463388239	7.19150240291268E+020	3.96611357520634E+024
0.0460359339917381	30.4323789988045	7.1916578400517E+020	3.96619929878851E+024
0.0460361542609613	30.4327116569951	7.19181327867816E+020	3.966285023191E+024
0.0460363745301846	30.4330443133958	7.19196871879208E+020	3.96637074841383E+024
0.0460365947994078	30.4333769680066	7.19212416039348E+020	3.96645647445701E+024
0.046036815068631	30.4337096208275	7.19227960348235E+020	3.96654220132052E+024
0.0460370353378543	30.4340422718587	7.19243504805871E+020	3.96662792900438E+024
0.0460372556070775	30.4343749211	7.19259049412255E+020	3.96671365750859E+024
0.0460374758763007	30.4347075685517	7.19274594167389E+020	3.96679938683315E+024
0.046037696145524	30.4350402142136	7.19290139071274E+020	3.96688511697808E+024
0.0460379164147472	30.4353728580859	7.1930568412391E+020	3.96697084794336E+024
0.0460381366839704	30.4357055001685	7.19321229325298E+020	3.96705657972902E+024
0.0460383569531937	30.4360381404615	7.19336774675438E+020	3.96714231233504E+024
0.0460385772224169	30.436370778965	7.19352320174331E+020	3.96722804576144E+024
0.0460387974916401	30.436703415679	7.19367865821979E+020	3.96731378000821E+024

Sheet1

0.0460390177608634	30.4370360506034	7.19383411618381E+020	3.96739951507537E+024
0.0460392380300866	30.4373686837384	7.19398957563539E+020	3.96748525096292E+024
0.0460394582993098	30.437701315084	7.19414503657452E+020	3.96757098767085E+024
0.0460396785685331	30.4380339446402	7.19430049900123E+020	3.96765672519918E+024
0.0460398988377563	30.438366572407	7.19445596291551E+020	3.96774246354791E+024
0.0460401191069795	30.4386991983845	7.19461142831738E+020	3.96782820271704E+024
0.0460403393762028	30.4390318225727	7.19476689520684E+020	3.96791394270657E+024
0.046040559645426	30.4393644449715	7.19492236358389E+020	3.96799968351651E+024
0.0460407799146492	30.4396970655811	7.19507783344855E+020	3.96808542514687E+024
0.0460410001838724	30.4400296844015	7.19523330480081E+020	3.96817116759765E+024
0.0460412204530957	30.4403623014328	7.1953887776407E+020	3.96825691086885E+024
0.0460414407223189	30.4406949166748	7.19554425196821E+020	3.96834265496047E+024
0.0460416609915422	30.4410275301278	7.19569972778335E+020	3.96842839987252E+024
0.0460418812607654	30.4413601417917	7.19585520508614E+020	3.968514145605E+024
0.0460421015299886	30.4416927516666	7.19601068387656E+020	3.96859989215792E+024
0.0460423217992118	30.4420253597525	7.19616616415465E+020	3.96868563953129E+024
0.0460425420684351	30.4423579660494	7.1963216459204E+020	3.9687713877251E+024
0.0460427623376583	30.4426905705574	7.19647712917381E+020	3.96885713673936E+024
0.0460429826068815	30.4430231732765	7.1966326139149E+020	3.96894288657407E+024
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0.046043423145328	30.4436883733482	7.19694358786013E+020	3.96911438870486E+024
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Sheet1

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Sheet1

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0.0460634676446422	30.4724731841353	7.21109919844982E+020	3.97692120794508E+024
0.0460636879138654	30.4727312011252	7.21125482306417E+020	3.97700703491989E+024
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0.0460645689907583	30.4737413704311	7.21187733640512E+020	3.97735035102742E+024
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0.0460661108753209	30.4754248665747	7.21296679205468E+020	3.97795118581815E+024
0.0460663311445442	30.4756566073163	7.2131224345297E+020	3.97803702264313E+024
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Sheet1

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0.0460720581443482	30.4809132092382	7.21716966134254E+020	3.98026906823041E+024
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Sheet1

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Sheet1

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0.0460940850666714	30.4813863681468	7.23274529773855E+020	3.98885903170281E+024
0.0460943053358947	30.4812362406044	7.23290112930199E+020	3.98894497281005E+024
0.0460945256051179	30.4816016362785	7.23305696235478E+020	3.98903091473866E+024

1.93836916444548E-05

SIMULATION :

Terre Creuse	3000 km		
Fc (pour 3.1 kg)	F (pour 3.1 kg)	V (mŠtres)ü	M = V*Dt (kg)
0.0460196340692189	#VALUE!	9.20243759288357E+020	5.07514433247529E+024
0.0460198543384422	#VALUE!	9.20259292145761E+020	5.07522999618387E+024
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0.0460205151461118	#VALUE!	9.20305891610139E+020	5.07548699222992E+024
0.0460207354153351	#VALUE!	9.20321425062322E+020	5.07557265921871E+024
0.0460209556845583	#VALUE!	9.20336958663201E+020	5.07565832702755E+024
0.0460211759537815	#VALUE!	9.20352492412777E+020	5.07574399565647E+024
0.0460213962230048	#VALUE!	9.20368026311052E+020	5.07582966510545E+024
0.046021616492228	#VALUE!	9.20383560358024E+020	5.0759153353745E+024
0.0460218367614513	#VALUE!	9.20399094553696E+020	5.07600100646363E+024
0.0460220570306745	#VALUE!	9.20414628898067E+020	5.07608667837284E+024
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0.0460249205305765	#VALUE!	9.20616588906914E+020	5.07720048782163E+024
0.0460251407997997	#VALUE!	9.2063212533316E+020	5.07728617121238E+024
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0.0460262421459159	#VALUE!	9.20709809695059E+020	5.07771460046825E+024

Sheet1

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DELTA-M
(kg)

SomDELTA-M
(kg)

MCompens,e
(kg)

Ftotale
(pour 3.1 kg)

Sheet1

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3.32046415453318E+019	4.3539166928303E+021	5.99177317121461E+024	30.5349318302923
3.37774644895898E+019	4.32071205128497E+021	5.99182583787809E+024	30.5349085300971
3.43502874338478E+019	4.28693458679538E+021	5.99187793253965E+024	30.5348823184089
3.49231103781058E+019	4.25258429936153E+021	5.99192945519932E+024	30.5348531953113
3.54959333223638E+019	4.21766118898343E+021	5.99198040585708E+024	30.5348211608878
3.60687562666218E+019	4.18216525566106E+021	5.99203078451295E+024	30.5347862152218
3.66415792108798E+019	4.14609649939444E+021	5.99208059116693E+024	30.5347483583969
3.72144021551378E+019	4.10945492018356E+021	5.99212982581902E+024	30.5347075904967
3.77872250993958E+019	4.07224051802842E+021	5.99217848846924E+024	30.5346639116046
3.83600480436539E+019	4.03445329292903E+021	5.99222657911756E+024	30.5346173218042
3.89328709879119E+019	3.99609324488537E+021	5.99227409776402E+024	30.5345678211791
3.95056939321699E+019	3.95716037389746E+021	5.99232104440861E+024	30.5345154098126
4.00785168764279E+019	3.91765467996529E+021	5.99236741905132E+024	30.5344600877884
4.06513398206859E+019	3.87757616308886E+021	5.99241322169218E+024	30.5344018551899
4.12241627649439E+019	3.83692482326818E+021	5.99245845233117E+024	30.5343407121006
4.17969857092019E+019	3.79570066050323E+021	5.99250311096831E+024	30.5342766586042
4.23698086534599E+019	3.75390367479403E+021	5.9925471976036E+024	30.5342096947839
4.29426315977179E+019	3.71153386614057E+021	5.99259071223704E+024	30.5341398207235
4.33725916685396E+019	3.66859123454285E+021	5.99263365486863E+024	30.5340670365062
4.38025517393612E+019	3.62521864287431E+021	5.99267616836126E+024	30.5339920690347
4.42325118101829E+019	3.58141609113495E+021	5.99271825271493E+024	30.5339149183717
4.46624718810045E+019	3.53718357932477E+021	5.99275990792964E+024	30.5338355845796
4.50924319518262E+019	3.49252110744376E+021	5.99280113400539E+024	30.5337540677212
4.55223920226478E+019	3.44742867549194E+021	5.9928419309422E+024	30.5336703678591
4.59523520934695E+019	3.40190628346929E+021	5.99288229874005E+024	30.533584485056
4.63823121642911E+019	3.35595393137582E+021	5.99292223739897E+024	30.5334964193744
4.68122722351128E+019	3.30957161921153E+021	5.99296174691894E+024	30.5334061708771
4.72422323059344E+019	3.26275934697642E+021	5.99300082729998E+024	30.5333137396267
4.76721923767561E+019	3.21551711467048E+021	5.99303947854209E+024	30.5332191256857
4.81021524475777E+019	3.16784492229373E+021	5.99307770064527E+024	30.5331223291169
4.85321125183994E+019	3.11974276984615E+021	5.99311549360953E+024	30.5330233499828
4.8962072589221E+019	3.07121065732775E+021	5.99315285743487E+024	30.5329221883462
4.93920326600427E+019	3.02224858473853E+021	5.9931897921213E+024	30.5328188442695
4.98219927308643E+019	2.97285655207849E+021	5.99322629766881E+024	30.5327133178155
5.0251952801686E+019	2.92303455934762E+021	5.99326237407742E+024	30.5326056090468
5.06819128725076E+019	2.87278260654594E+021	5.99329802134712E+024	30.5324957180259
5.11118729433293E+019	2.82210069367343E+021	5.99333323947792E+024	30.5323836448156
5.15418330141509E+019	2.7709888207301E+021	5.99336802846983E+024	30.5322693894783
5.19717930849726E+019	2.71944698771595E+021	5.99340238832284E+024	30.5321529520768
5.24017531557942E+019	2.66747519463098E+021	5.99343631903697E+024	30.5320343326736
5.28317132266159E+019	2.61507344147518E+021	5.99346982061221E+024	30.5319135313315
5.32616732974375E+019	2.56224172824857E+021	5.99350289304857E+024	30.5317905481128
5.36916333682592E+019	2.50898005495113E+021	5.99353553634606E+024	30.5316653830804
5.41215934390808E+019	2.45528842158287E+021	5.99356775050467E+024	30.5315380362967
5.45515535099025E+019	2.40116682814379E+021	5.99359953552442E+024	30.5314085078244
5.49815135807241E+019	2.34661527463389E+021	5.99363089140531E+024	30.5312767977262
5.54114736515458E+019	2.29163376105316E+021	5.99366181814733E+024	30.5311429060645
5.58414337223675E+019	2.23622228740162E+021	5.99369231575049E+024	30.531006832902

Sheet1

5.58419675525701E+019	2.18038085367925E+021	5.99372238421481E+024	30.5308685783013
5.58425013827726E+019	2.12453888612668E+021	5.99375245296651E+024	30.5307303264169
5.58430352129751E+019	2.06869638474391E+021	5.99378252200561E+024	30.5305920772487
5.58435690431776E+019	2.01285334953093E+021	5.99381259133211E+024	30.5304538307967
5.58441028733801E+019	1.95700978048775E+021	5.99384266094602E+024	30.5303155870609
5.58446367035826E+019	1.90116567761437E+021	5.99387273084733E+024	30.5301773460412
5.58451705337852E+019	1.84532104091079E+021	5.99390280103605E+024	30.5300391077376
5.58457043639877E+019	1.78947587037701E+021	5.99393287151219E+024	30.52990087215
5.58462381941902E+019	1.73363016601302E+021	5.99396294227575E+024	30.5297626392785
5.58467720243927E+019	1.67778392781883E+021	5.99399301332673E+024	30.5296244091229
5.58473058545952E+019	1.62193715579443E+021	5.99402308466514E+024	30.5294861816832
5.58478396847977E+019	1.56608984993984E+021	5.99405315629099E+024	30.5293479569595
5.58483735150002E+019	1.51024201025504E+021	5.99408322820426E+024	30.5292097349516
5.58489073452028E+019	1.45439363674004E+021	5.99411330040497E+024	30.5290715156594
5.58494411754053E+019	1.39854472939484E+021	5.99414337289313E+024	30.5289332990831
5.58499750056078E+019	1.34269528821943E+021	5.99417344566874E+024	30.5287950852225
5.58505088358103E+019	1.28684531321383E+021	5.9942035187318E+024	30.5286568740776
5.58510426660128E+019	1.23099480437802E+021	5.9942335920823E+024	30.5285186656484
5.58515764962153E+019	1.175143761712E+021	5.99426366572028E+024	30.5283804599348
5.58521103264179E+019	1.11929218521579E+021	5.99429373964571E+024	30.5282422569367
5.58526441566204E+019	1.06344007488937E+021	5.99432381385861E+024	30.5281040566542
5.58531779868229E+019	1.00758743073275E+021	5.99435388835898E+024	30.5279658590872
5.58537118170254E+019	9.51734252745926E+020	5.99438396314682E+024	30.5278276642357
5.58542456472279E+019	8.958805409289E+020	5.99441403822214E+024	30.5276894720996
5.58547794774304E+019	8.40026295281673E+020	5.99444411358495E+024	30.5275512826788
5.58553133076329E+019	7.84171515804242E+020	5.99447418923524E+024	30.5274130959735
5.58558471378355E+019	7.28316202496609E+020	5.99450426517302E+024	30.5272749119834
5.5856380968038E+019	6.72460355358774E+020	5.99453434139829E+024	30.5271367307086
5.58569147982405E+019	6.16603974390736E+020	5.99456441791107E+024	30.526998552149
5.71465776073145E+019	5.60747059592495E+020	5.99459449471134E+024	30.5268603763046
5.84362404163885E+019	5.03600481985181E+020	5.99462328267014E+024	30.5267156483924
5.97259032254625E+019	4.45164241568792E+020	5.99465078178748E+024	30.5265643686003
6.10155660345366E+019	3.8543833834333E+020	5.99467699206334E+024	30.5264065371161
6.23052288436106E+019	3.24422772308793E+020	5.99470191349775E+024	30.5262421541279
6.35948916526846E+019	2.62117543465183E+020	5.9947255460907E+024	30.5260712198235
6.48845544617586E+019	1.98522651812498E+020	5.9947478898422E+024	30.5258937343907
6.61742172708327E+019	1.33638097350739E+020	5.99476894475224E+024	30.5257096980175
6.74638800799067E+019	6.74638800799067E+019	5.99478871082084E+024	30.5255191108917
6.87535428889807E+019		5.994807188048E+024	30.5253219732012
		5.99489312997661E+024	30.5254678434754

Sheet1

DELTA-M (kg)	SomDELTA-M (kg)	MCompens,e (kg)	Ftotale (pour 3.1 kg)
4.28318542923383E+018	6.58881873865368E+021	5.97230900313458E+024	30.5094800939233
4.2832264343142E+018	6.58453555322445E+021	5.97239038365774E+024	30.5096037950783
4.28326743939458E+018	6.58025232679013E+021	5.97247176495994E+024	30.5097274964472
4.28330844447495E+018	6.57596905935074E+021	5.97255314704118E+024	30.5098511980297
4.28334944955532E+018	6.57168575090626E+021	5.97263452990146E+024	30.5099748998261
4.2833904546357E+018	6.56740240145671E+021	5.9727159135408E+024	30.5100986018361
4.28343145971607E+018	6.56311901100207E+021	5.97279729795919E+024	30.5102223040599
4.28347246479644E+018	6.55883557954235E+021	5.97287868315665E+024	30.5103460064974
4.28351346987682E+018	6.55455210707756E+021	5.97296006913317E+024	30.5104697091486
4.28355447495719E+018	6.55026859360768E+021	5.97304145588875E+024	30.5105934120136
4.28359548003757E+018	6.54598503913272E+021	5.9731228434234E+024	30.5107171150922
4.28363648511794E+018	6.54170144365269E+021	5.97320423173713E+024	30.5108408183846
4.28367749019831E+018	6.53741780716757E+021	5.97328562082994E+024	30.5109645218907
4.28371849527869E+018	6.53313412967737E+021	5.97336701070183E+024	30.5110882256105
4.28375950035906E+018	6.52885041118209E+021	5.97344840135281E+024	30.511211929544
4.28380050543943E+018	6.52456665168173E+021	5.97352979278288E+024	30.5113356336913
4.28384151051981E+018	6.52028285117629E+021	5.97361118499204E+024	30.5114593380522
4.28388251560018E+018	6.51599900966577E+021	5.9736925779803E+024	30.5115830426268
4.28392352068056E+018	6.51171512715017E+021	5.97377397174767E+024	30.5117067474151
4.28396452576093E+018	6.50743120362949E+021	5.97385536629414E+024	30.5118304524171
4.2840055308413E+018	6.50314723910373E+021	5.97393676161972E+024	30.5119541576328
4.28404653592168E+018	6.49886323357289E+021	5.97401815772441E+024	30.5120778630622
4.28408754100205E+018	6.49457918703696E+021	5.97409955460823E+024	30.5122015687052
4.28412854608242E+018	6.49029509949596E+021	5.97418095227116E+024	30.512325274562
4.2841695511628E+018	6.48601097094988E+021	5.97426235071322E+024	30.5124489806324
4.28421055624317E+018	6.48172680139872E+021	5.97434374993441E+024	30.5125726869164
4.28425156132355E+018	6.47744259084247E+021	5.97442514993474E+024	30.5126963934142
4.28429256640392E+018	6.47315833928115E+021	5.9745065507142E+024	30.5128201001256
4.28433357148429E+018	6.46887404671474E+021	5.97458795227281E+024	30.5129438070507
4.28437457656467E+018	6.46458971314326E+021	5.97466935461055E+024	30.5130675141895
4.28441558164505E+018	6.46030533856669E+021	5.97475075772745E+024	30.5131912215419
4.28445659261795E+018	6.45602092298505E+021	5.97483216162351E+024	30.5133149291079
4.28449760359085E+018	6.45173646639243E+021	5.97491356629871E+024	30.5134386368876
4.28453861456376E+018	6.44745196878884E+021	5.97499497175307E+024	30.5135623448809
4.28457962553666E+018	6.44316743017428E+021	5.97507637798659E+024	30.5136860530878
4.28462063650957E+018	6.43888285054874E+021	5.97515778499927E+024	30.5138097615083
4.28466164748247E+018	6.43459822991223E+021	5.97523919279112E+024	30.5139334701424
4.28470265845538E+018	6.43031356826475E+021	5.97532060136214E+024	30.5140571789902
4.28474366942828E+018	6.42602886560629E+021	5.97540201071233E+024	30.5141808880515
4.28478468040119E+018	6.42174412193686E+021	5.97548342084171E+024	30.5143045973264
4.28482569137409E+018	6.41745933725646E+021	5.97556483175027E+024	30.514428306815
4.284866702347E+018	6.41317451156509E+021	5.97564624343801E+024	30.5145520165171
4.2849077133199E+018	6.40888964486274E+021	5.97572765590495E+024	30.5146757264328
4.2849487242928E+018	6.40460473714942E+021	5.97580906915108E+024	30.5147994365621
4.28498973526571E+018	6.40031978842513E+021	5.9758904831764E+024	30.514923146905
4.28503074623861E+018	6.39603479868986E+021	5.97597189798094E+024	30.5150468574615
4.28507175721152E+018	6.39174976794362E+021	5.97605331356467E+024	30.5151705682315

Sheet1

4.28511276818442E+018	6.38746469618641E+021	5.97613472992762E+024	30.5152942792151
4.28515377915733E+018	6.38317958341823E+021	5.97621614706978E+024	30.5154179904123
4.28519479013023E+018	6.37889442963907E+021	5.97629756499116E+024	30.5155417018231
4.28523580110314E+018	6.37460923484894E+021	5.97637898369176E+024	30.5156654134474
4.28527681207604E+018	6.37032399904784E+021	5.97646040317159E+024	30.5157891252853
4.28531782304894E+018	6.36603872223576E+021	5.97654182343065E+024	30.5159128373367
4.28535883402185E+018	6.36175340441271E+021	5.97662324446894E+024	30.5160365496017
4.28539984499475E+018	6.35746804557869E+021	5.97670466628647E+024	30.5161602620803
4.28544085596766E+018	6.3531826457337E+021	5.97678608888324E+024	30.5162839747724
4.28548186694056E+018	6.34889720487773E+021	5.97686751225926E+024	30.516407687678
4.28552287791347E+018	6.34461172301079E+021	5.97694893641453E+024	30.5165314007972
4.28556388888637E+018	6.34032620013288E+021	5.97703036134905E+024	30.51665511413
4.28560489985927E+018	6.33604063624399E+021	5.97711178706282E+024	30.5167788276763
4.28564591083219E+018	6.33175503134413E+021	5.97719321355586E+024	30.5169025414361
4.28568692768678E+018	6.3274693854333E+021	5.97727464082817E+024	30.5170262554094
4.28572794454137E+018	6.32318369850561E+021	5.97735606887974E+024	30.5171499695962
4.28576896139596E+018	6.31889797056107E+021	5.97743749771057E+024	30.5172736839966
4.28580997825056E+018	6.31461220159967E+021	5.97751892732068E+024	30.5173973986104
4.28585099510515E+018	6.31032639162142E+021	5.97760035771006E+024	30.5175211134377
4.28589201195974E+018	6.30604054062632E+021	5.97768178887872E+024	30.5176448284785
4.28593302881433E+018	6.30175464861436E+021	5.97776322082666E+024	30.5177685437328
4.28597404566893E+018	6.29746871558554E+021	5.97784465355389E+024	30.5178922592006
4.28601506252352E+018	6.29318274153987E+021	5.97792608706041E+024	30.5180159748818
4.28605607937811E+018	6.28889672647735E+021	5.97800752134623E+024	30.5181396907765
4.2860970962327E+018	6.28461067039797E+021	5.97808895641134E+024	30.5182634068847
4.2861381130873E+018	6.28032457330174E+021	5.97817039225576E+024	30.5183871232063
4.28617912994189E+018	6.27603843518865E+021	5.97825182887949E+024	30.5185108397415
4.28622014679648E+018	6.27175225605871E+021	5.97833326628252E+024	30.51863455649
4.28626116365107E+018	6.26746603591191E+021	5.97841470446487E+024	30.5187582734521
4.28630218050567E+018	6.26317977474826E+021	5.97849614342653E+024	30.5188819906276
4.28634319736026E+018	6.25889347256776E+021	5.97857758316752E+024	30.5190057080165
4.28638421421485E+018	6.2546071293704E+021	5.97865902368784E+024	30.5191294256189
4.28642523106944E+018	6.25032074515618E+021	5.97874046498749E+024	30.5192531434347
4.28646624792404E+018	6.24603431992511E+021	5.97882190706646E+024	30.519376861464
4.28650726477863E+018	6.24174785367719E+021	5.97890334992478E+024	30.5195005797067
4.28654828163322E+018	6.23746134641241E+021	5.97898479356244E+024	30.5196242981629
4.28658929848781E+018	6.23317479813078E+021	5.97906623797944E+024	30.5197480168325
4.28663031534241E+018	6.22888820883229E+021	5.9791476831758E+024	30.5198717357155
4.286671332197E+018	6.22460157851695E+021	5.97922912915151E+024	30.5199954548119
4.28671234905159E+018	6.22031490718475E+021	5.97931057590657E+024	30.5201191741218
4.28675336590618E+018	6.2160281948357E+021	5.979392023441E+024	30.5202428936451
4.28679438276078E+018	6.21174144146979E+021	5.97947347175479E+024	30.5203666133818
4.28683539961537E+018	6.20745464708703E+021	5.97955492084796E+024	30.5204903333319
4.28687641646996E+018	6.20316781168742E+021	5.97963637072049E+024	30.5206140534955
4.28691743921467E+018	6.19888093527095E+021	5.9797178213724E+024	30.5207377738724
4.28695846195939E+018	6.19459401783173E+021	5.97979927280369E+024	30.5208614944628
4.2869994847041E+018	6.19030705936977E+021	5.97988072501436E+024	30.5209852152664
4.28704050744881E+018	6.18602005988507E+021	5.97996217800441E+024	30.5211089362835
4.28708153019353E+018	6.18173301937762E+021	5.98004363177384E+024	30.5212326575139

Sheet1

4.28712255293824E+018	6.17744593784743E+021	5.98012508632267E+024	30.5213563789577
4.28716357568296E+018	6.17315881529449E+021	5.98020654165089E+024	30.5214801006149
4.28720459842767E+018	6.16887165171881E+021	5.98028799775851E+024	30.5216038224854
4.28724562117238E+018	6.16458444712038E+021	5.98036945464554E+024	30.5217275445693
4.2872866439171E+018	6.16029720149921E+021	5.98045091231197E+024	30.5218512668665
4.28732766666181E+018	6.15600991485529E+021	5.98053237075781E+024	30.5219749893771
4.28736868940652E+018	6.15172258718863E+021	5.98061382998307E+024	30.522098712101
4.28740971215124E+018	6.14743521849922E+021	5.98069528998774E+024	30.5222224350382
4.28745073489595E+018	6.14314780878707E+021	5.98077675077184E+024	30.5223461581888
4.28749175764066E+018	6.13886035805218E+021	5.98085821233536E+024	30.5224698815528
4.28753278038538E+018	6.13457286629453E+021	5.98093967467831E+024	30.52259360513
4.28757380313009E+018	6.13028533351415E+021	5.9810211378007E+024	30.5227173289206
4.28761482587481E+018	6.12599775971102E+021	5.98110260170252E+024	30.5228410529245
4.28765584861952E+018	6.12171014488515E+021	5.98118406638379E+024	30.5229647771417
4.28769687136423E+018	6.11742248903653E+021	5.9812655318445E+024	30.5230885015723
4.28773789410895E+018	6.11313479216516E+021	5.98134699808467E+024	30.5232122262162
4.28777891685366E+018	6.10884705427105E+021	5.98142846510428E+024	30.5233359510734
4.28781993959837E+018	6.1045592753542E+021	5.98150993290336E+024	30.5234596761439
4.28786096234309E+018	6.1002714554146E+021	5.98159140148189E+024	30.5235834014277
4.2879019850878E+018	6.09598359445226E+021	5.98167287083989E+024	30.5237071269248
4.28794300783252E+018	6.09169569246717E+021	5.98175434097736E+024	30.5238308526352
4.28798403057723E+018	6.08740774945934E+021	5.98183581189431E+024	30.5239545785589
4.28802505332194E+018	6.08311976542876E+021	5.98191728359073E+024	30.5240783046959
4.28806607606666E+018	6.07883174037544E+021	5.98199875606663E+024	30.5242020310462
4.28810709881137E+018	6.07454367429937E+021	5.98208022932202E+024	30.5243257576098
4.28814812743536E+018	6.07025556720056E+021	5.98216170335689E+024	30.5244494843867
4.28818915605935E+018	6.06596741907312E+021	5.98224317817126E+024	30.5245732113769
4.28823018468334E+018	6.06167922991706E+021	5.98232465376511E+024	30.5246969385802
4.28827121330733E+018	6.05739099973238E+021	5.98240613013846E+024	30.5248206659969
4.28831224193133E+018	6.05310272851907E+021	5.98248760729131E+024	30.5249443936267
4.28835327055532E+018	6.04881441627714E+021	5.98256908522366E+024	30.5250681214699
4.28839429917931E+018	6.04452606300658E+021	5.98265056393552E+024	30.5251918495262
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4.28851738505129E+018	6.03166075702318E+021	5.98289500474817E+024	30.5255630349747
4.28855841367528E+018	6.02737223963812E+021	5.98297648657809E+024	30.5256867638839
4.28859944229927E+018	6.02308368122445E+021	5.98305796918754E+024	30.5258104930064
4.28864047092326E+018	6.01879508178215E+021	5.98313945257652E+024	30.5259342223421
4.28868149954725E+018	6.01450644131123E+021	5.98322093674503E+024	30.5260579518911
4.28872252817124E+018	6.01021775981168E+021	5.98330242169309E+024	30.5261816816532
4.28876355679524E+018	6.00592903728351E+021	5.98338390742069E+024	30.5263054116286
4.28880458541923E+018	6.00164027372671E+021	5.98346539392782E+024	30.5264291418171
4.28884561404322E+018	5.99735146914129E+021	5.98354688121451E+024	30.5265528722189
4.28888664266721E+018	5.99306262352725E+021	5.98362836928076E+024	30.5266766028339
4.2889276712912E+018	5.98877373688458E+021	5.98370985812656E+024	30.526800333662
4.2889686999152E+018	5.98448480921329E+021	5.98379134775193E+024	30.5269240647034
4.28900972853919E+018	5.98019584051338E+021	5.98387283815685E+024	30.527047795958
4.28905075716318E+018	5.97590683078484E+021	5.98395432934135E+024	30.5271715274257
4.28909178578717E+018	5.97161778002767E+021	5.98403582130542E+024	30.5272952591066

Sheet1

4.28913281441116E+018	5.96732868824189E+021	5.98411731404907E+024	30.5274189910007
4.28917384303515E+018	5.96303955542748E+021	5.9841988075723E+024	30.527542723108
4.28921487165915E+018	5.95875038158444E+021	5.98428030187512E+024	30.5276664554285
4.28925590028314E+018	5.95446116671278E+021	5.98436179695753E+024	30.5277901879621
4.28929692890713E+018	5.9501719108125E+021	5.98444329281952E+024	30.5279139207089
4.28933795753112E+018	5.94588261388359E+021	5.98452478946112E+024	30.5280376536689
4.43239795849151E+018	5.94159327592606E+021	5.98460628688231E+024	30.528161386842
4.5754579594519E+018	5.93716087796757E+021	5.98468764206414E+024	30.5282843917797
4.71851796041229E+018	5.93258542000812E+021	5.98476885500661E+024	30.5284066685029
4.86157796137267E+018	5.9278669020477E+021	5.98484992570971E+024	30.5285282170324
5.00463796233306E+018	5.92300532408633E+021	5.98493085417347E+024	30.5286490373891
5.14769796329345E+018	5.918000686124E+021	5.98501164039786E+024	30.528769129594
5.29075796425383E+018	5.9128529881607E+021	5.98509228438291E+024	30.528888493668
5.43381796521422E+018	5.90756223019645E+021	5.98517278612862E+024	30.5290071296319
5.57687796617461E+018	5.90212841223124E+021	5.98525314563498E+024	30.5291250375067
5.719937967135E+018	5.89655153426506E+021	5.98533336290202E+024	30.5292422173132
5.86299796809538E+018	5.89083159629793E+021	5.98541343792971E+024	30.5293586690723
6.00605796905577E+018	5.88496859832983E+021	5.98549337071808E+024	30.529474392805
6.14911797001616E+018	5.87896254036077E+021	5.98557316126713E+024	30.5295893885321
6.29217797097654E+018	5.87281342239076E+021	5.98565280957685E+024	30.5297036562746
6.43523797193693E+018	5.86652124441978E+021	5.98573231564726E+024	30.5298171960533
6.57829797289732E+018	5.86008600644784E+021	5.98581167947835E+024	30.5299300078891
6.72135797385771E+018	5.85350770847495E+021	5.98589090107014E+024	30.5300420918029
6.86441797481809E+018	5.84678635050109E+021	5.98596998042263E+024	30.5301534478156
7.00747797577848E+018	5.83992193252627E+021	5.98604891753581E+024	30.5302640759481
7.15053797673887E+018	5.83291445455049E+021	5.98612771240969E+024	30.5303739762213
7.29359797769925E+018	5.82576391657376E+021	5.98620636504428E+024	30.5304831486561
7.43665797865964E+018	5.81847031859606E+021	5.98628487543959E+024	30.5305915932733
7.57971797962003E+018	5.8110336606174E+021	5.9863632435956E+024	30.5306993100939
7.72277798058042E+018	5.80345394263778E+021	5.98644146951234E+024	30.5308062991387
7.8658379815408E+018	5.7957311646572E+021	5.9865195531898E+024	30.5309125604287
8.00889798250119E+018	5.78786532667566E+021	5.98659749462798E+024	30.5310180939847
8.15195798346158E+018	5.77985642869316E+021	5.9866752938269E+024	30.5311228998276
8.29501798442196E+018	5.77170447070969E+021	5.98675295078655E+024	30.5312269779783
8.43807798538235E+018	5.76340945272527E+021	5.98683046550694E+024	30.5313303284577
8.58113798634275E+018	5.75497137473989E+021	5.98690783798808E+024	30.5314329512867
8.86734008086669E+018	5.74639023675355E+021	5.98698506822996E+024	30.5315348464861
9.15354217539063E+018	5.73752289667268E+021	5.98706201309049E+024	30.5316352852103
9.43974426991458E+018	5.72836935449729E+021	5.98713867256968E+024	30.5317342675011
9.72594636443852E+018	5.71892961022738E+021	5.98721504666755E+024	30.5318317934003
1.00121484589625E+019	5.70920366386294E+021	5.98729113538408E+024	30.5319278629498
1.02983505534864E+019	5.69919151540397E+021	5.98736693871928E+024	30.5320224761912
1.05845526480103E+019	5.68889316485049E+021	5.98744245667315E+024	30.5321156331663
1.08707547425343E+019	5.67830861220248E+021	5.98751768924571E+024	30.5322073339171
1.11569568370582E+019	5.66743785745994E+021	5.98759263643695E+024	30.5322975784852
1.14431589315822E+019	5.65628090062289E+021	5.98766729824689E+024	30.5323863669125
1.17293610261061E+019	5.6448377416913E+021	5.9877416746755E+024	30.5324736992407
1.20155631206301E+019	5.6331083806652E+021	5.98781576572282E+024	30.5325595755116
1.2301765215154E+019	5.62109281754457E+021	5.98788957138884E+024	30.532643995767

Sheet1

1.2587967309678E+019	5.60879105232941E+021	5.98796309167356E+024	30.5327269600488
1.28741694042019E+019	5.59620308501974E+021	5.98803632657699E+024	30.5328084683986
1.31603714987258E+019	5.58332891561553E+021	5.98810927609913E+024	30.5328885208582
1.34465735932498E+019	5.57016854411681E+021	5.98818194023999E+024	30.5329671174695
1.37327756877737E+019	5.55672197052356E+021	5.98825431899957E+024	30.5330442582743
1.40189777822977E+019	5.54298919483578E+021	5.98832641237787E+024	30.5331199433142
1.43051798768216E+019	5.52897021705349E+021	5.98839822037489E+024	30.5331941726311
1.45913819713456E+019	5.51466503717666E+021	5.98846974299065E+024	30.5332669462667
1.48775840658695E+019	5.50007365520532E+021	5.98854098022515E+024	30.5333382642628
1.51637861603934E+019	5.48519607113945E+021	5.98861193207837E+024	30.5334081266613
1.54499882549174E+019	5.47003228497906E+021	5.98868259855035E+024	30.5334765335038
1.57361903494413E+019	5.45458229672414E+021	5.98875297964107E+024	30.5335434848322
1.60223924439653E+019	5.4388461063747E+021	5.98882307535055E+024	30.5336089806881
1.63085945384892E+019	5.42282371393073E+021	5.98889288567878E+024	30.5336730211135
1.65947966330131E+019	5.40651511939224E+021	5.98896241062576E+024	30.5337356061499
1.68809987275371E+019	5.38992032275923E+021	5.98903165019151E+024	30.5337967358393
1.7167200822061E+019	5.37303932403169E+021	5.98910060437603E+024	30.5338564102234
1.74535671135282E+019	5.35587212320963E+021	5.98916927317931E+024	30.5339146293439
1.77399334049953E+019	5.3384185560961E+021	5.98923765643718E+024	30.5339713924068
1.80262996964625E+019	5.32067862269111E+021	5.98930575414962E+024	30.5340266994538
1.83126659879296E+019	5.30265232299465E+021	5.98937356631665E+024	30.5340805505267
1.85990322793968E+019	5.28433965700672E+021	5.98944109293827E+024	30.5341329456674
1.88853985708639E+019	5.26574062472732E+021	5.98950833401449E+024	30.5341838849175
1.91717648623311E+019	5.24685522615645E+021	5.9895752895453E+024	30.5342333683189
1.94581311537982E+019	5.22768346129412E+021	5.98964195953071E+024	30.5342813959134
1.97444974452654E+019	5.20822533014032E+021	5.98970834397073E+024	30.5343279677428
2.00308637367325E+019	5.18848083269506E+021	5.98977444286535E+024	30.5343730838487
2.03172300281997E+019	5.16844996895833E+021	5.98984025621459E+024	30.534416744273
2.06035963196668E+019	5.14813273893013E+021	5.98990578401845E+024	30.5344589490575
2.0889962611134E+019	5.12752914261046E+021	5.98997102627692E+024	30.5344996982439
2.11763289026011E+019	5.10663917999933E+021	5.99003598299002E+024	30.534538991874
2.14626951940683E+019	5.08546285109673E+021	5.99010065415775E+024	30.5345768299896
2.17490614855354E+019	5.06400015590266E+021	5.99016503978011E+024	30.5346132126324
2.20354277770026E+019	5.04225109441712E+021	5.99022913985711E+024	30.5346481398443
2.23217940684697E+019	5.02021566664012E+021	5.99029295438875E+024	30.5346816116669
2.26081603599369E+019	4.99789387257165E+021	5.99035648337503E+024	30.5347136281421
2.2894526651404E+019	4.97528571221171E+021	5.99041972681596E+024	30.5347441893116
2.31808929428712E+019	4.95239118556031E+021	5.99048268471154E+024	30.5347732952172
2.34672592343383E+019	4.92921029261744E+021	5.99054535706178E+024	30.5348009459006
2.37536255258055E+019	4.9057430333831E+021	5.99060774386668E+024	30.5348271414036
2.40399918172726E+019	4.88198940785729E+021	5.99066984512624E+024	30.534851881768
2.43263581087398E+019	4.85794941604002E+021	5.99073166084047E+024	30.5348751670354
2.46127244002069E+019	4.83362305793128E+021	5.99079319100937E+024	30.5348969972478
2.48990906916741E+019	4.80901033353107E+021	5.99085443563295E+024	30.5349173724468
2.51854569831412E+019	4.7841112428394E+021	5.9909153947112E+024	30.5349362926742
2.54718232746084E+019	4.75892578585626E+021	5.99097606824415E+024	30.5349537579717
2.57581895660755E+019	4.73345396258165E+021	5.99103645623177E+024	30.5349697683811
2.63310043004636E+019	4.70769577301558E+021	5.99109655867409E+024	30.5349843239442
2.69038190348517E+019	4.68136476871511E+021	5.99115608912266E+024	30.5349959669699

Sheet1

2.74766337692398E+019	4.65446094968026E+021	5.99121504757749E+024	30.5350046975418
2.80494485036279E+019	4.62698431591102E+021	5.99127343403858E+024	30.5350105157434
2.86222632380159E+019	4.59893486740739E+021	5.99133124850593E+024	30.5350134216584
2.9195077972404E+019	4.57031260416938E+021	5.99138849097955E+024	30.5350134153702
2.97678927067921E+019	4.54111752619697E+021	5.99144516145944E+024	30.5350104969625
3.03407074411802E+019	4.51134963349018E+021	5.99150125994561E+024	30.5350046665188
3.09135221755683E+019	4.481008926049E+021	5.99155678643806E+024	30.5349959241225
3.14863369099563E+019	4.45009540387343E+021	5.99161174093679E+024	30.5349842698574
3.20591516443444E+019	4.41860906696348E+021	5.99166612344181E+024	30.5349697038069
3.26319663787325E+019	4.38654991531913E+021	5.99171993395311E+024	30.5349522260545
3.32047811131206E+019	4.3539179489404E+021	5.99177317247072E+024	30.5349318366839
3.37775958475087E+019	4.32071316782728E+021	5.99182583899463E+024	30.5349085357785
3.43504105818967E+019	4.28693557197977E+021	5.99187793352484E+024	30.5348823234219
3.49232253162848E+019	4.25258516139787E+021	5.99192945606135E+024	30.5348531996976
3.54960400506729E+019	4.21766193608159E+021	5.99198040660418E+024	30.5348211646892
3.6068854785061E+019	4.18216589603092E+021	5.99203078515332E+024	30.5347862184801
3.66416695194491E+019	4.14609704124585E+021	5.99208059170878E+024	30.5347483611539
3.72144842538371E+019	4.10945537172641E+021	5.99212982627057E+024	30.5347075927942
3.77872989882252E+019	4.07224088747257E+021	5.99217848883868E+024	30.5346639134844
3.83601137226133E+019	4.03445358848434E+021	5.99222657941312E+024	30.534617323308
3.89329284570014E+019	3.99609347476173E+021	5.9922740979939E+024	30.5345678223487
3.95057431913895E+019	3.95716054630473E+021	5.99232104458101E+024	30.5345154106898
4.00785579257775E+019	3.91765480311334E+021	5.99236741917447E+024	30.5344600884149
4.06513726601656E+019	3.87757624518756E+021	5.99241322177427E+024	30.5344018556076
4.12241873945537E+019	3.8369248725274E+021	5.99245845238043E+024	30.5343407123512
4.17970021289418E+019	3.79570068513284E+021	5.99250311099294E+024	30.5342766587295
4.23698168633298E+019	3.7539036830039E+021	5.99254719761181E+024	30.5342096948257
4.29426315977179E+019	3.71153386614057E+021	5.99259071223704E+024	30.5341398207235
4.33725916685396E+019	3.66859123454285E+021	5.99263365486863E+024	30.5340670365062
4.38025517393612E+019	3.62521864287431E+021	5.99267616836126E+024	30.5339920690347
4.42325118101829E+019	3.58141609113495E+021	5.99271825271493E+024	30.5339149183717
4.46624718810045E+019	3.53718357932477E+021	5.99275990792964E+024	30.5338355845796
4.50924319518262E+019	3.49252110744376E+021	5.99280113400539E+024	30.5337540677212
4.55223920226478E+019	3.44742867549194E+021	5.9928419309422E+024	30.5336703678591
4.59523520934695E+019	3.40190628346929E+021	5.99288229874005E+024	30.533584485056
4.63823121642911E+019	3.35595393137582E+021	5.99292223739897E+024	30.5334964193744
4.68122722351128E+019	3.30957161921153E+021	5.99296174691894E+024	30.5334061708771
4.72422323059344E+019	3.26275934697642E+021	5.99300082729998E+024	30.5333137396267
4.76721923767561E+019	3.21551711467048E+021	5.99303947854209E+024	30.5332191256857
4.81021524475777E+019	3.16784492229373E+021	5.99307770064527E+024	30.5331223291169
4.85321125183994E+019	3.11974276984615E+021	5.99311549360953E+024	30.5330233499828
4.8962072589221E+019	3.07121065732775E+021	5.99315285743487E+024	30.5329221883462
4.93920326600427E+019	3.02224858473853E+021	5.9931897921213E+024	30.5328188442695
4.98219927308643E+019	2.97285655207849E+021	5.99322629766881E+024	30.5327133178155
5.0251952801686E+019	2.92303455934762E+021	5.99326237407742E+024	30.5326056090468
5.06819128725076E+019	2.87278260654594E+021	5.99329802134712E+024	30.5324957180259
5.11118729433293E+019	2.82210069367343E+021	5.99333323947792E+024	30.5323836448156
5.15418330141509E+019	2.7709888207301E+021	5.99336802846983E+024	30.5322693894783
5.19717930849726E+019	2.71944698771595E+021	5.99340238832284E+024	30.5321529520768

Sheet1

5.24017531557942E+019	2.66747519463098E+021	5.99343631903697E+024	30.5320343326736
5.28317132266159E+019	2.61507344147518E+021	5.99346982061221E+024	30.5319135313315
5.32616732974375E+019	2.56224172824857E+021	5.99350289304857E+024	30.5317905481128
5.36916333682592E+019	2.50898005495113E+021	5.99353553634606E+024	30.5316653830804
5.41215934390808E+019	2.45528842158287E+021	5.99356775050467E+024	30.5315380362967
5.45515535099025E+019	2.40116682814379E+021	5.99359953552442E+024	30.5314085078244
5.49815135807241E+019	2.34661527463389E+021	5.99363089140531E+024	30.5312767977262
5.54114736515458E+019	2.29163376105316E+021	5.99366181814733E+024	30.5311429060645
5.58414337223675E+019	2.23622228740162E+021	5.99369231575049E+024	30.531006832902
5.58419675525701E+019	2.18038085367925E+021	5.99372238421481E+024	30.5308685783013
5.58425013827726E+019	2.12453888612668E+021	5.99375245296651E+024	30.5307303264169
5.58430352129751E+019	2.06869638474391E+021	5.99378252200561E+024	30.5305920772487
5.58435690431776E+019	2.01285334953093E+021	5.99381259133211E+024	30.5304538307967
5.58441028733801E+019	1.95700978048775E+021	5.99384266094602E+024	30.5303155870609
5.58446367035826E+019	1.90116567761437E+021	5.99387273084733E+024	30.5301773460412
5.58451705337852E+019	1.84532104091079E+021	5.99390280103605E+024	30.5300391077376
5.58457043639877E+019	1.78947587037701E+021	5.99393287151219E+024	30.52990087215
5.58462381941902E+019	1.73363016601302E+021	5.99396294227575E+024	30.5297626392785
5.58467720243927E+019	1.67778392781883E+021	5.99399301332673E+024	30.5296244091229
5.58473058545952E+019	1.62193715579443E+021	5.99402308466514E+024	30.5294861816832
5.58478396847977E+019	1.56608984993984E+021	5.99405315629099E+024	30.5293479569595
5.58483735150002E+019	1.51024201025504E+021	5.99408322820426E+024	30.5292097349516
5.58489073452028E+019	1.45439363674004E+021	5.99411330040497E+024	30.5290715156594
5.58494411754053E+019	1.39854472939484E+021	5.99414337289313E+024	30.5289332990831
5.58499750056078E+019	1.34269528821943E+021	5.99417344566874E+024	30.5287950852225
5.58505088358103E+019	1.28684531321383E+021	5.9942035187318E+024	30.5286568740776
5.58510426660128E+019	1.23099480437802E+021	5.9942335920823E+024	30.5285186656484
5.58515764962153E+019	1.175143761712E+021	5.99426366572028E+024	30.5283804599348
5.58521103264179E+019	1.11929218521579E+021	5.99429373964571E+024	30.5282422569367
5.58526441566204E+019	1.06344007488937E+021	5.99432381385861E+024	30.5281040566542
5.58531779868229E+019	1.00758743073275E+021	5.99435388835898E+024	30.5279658590872
5.58537118170254E+019	9.51734252745926E+020	5.99438396314682E+024	30.5278276642357
5.58542456472279E+019	8.958805409289E+020	5.99441403822214E+024	30.5276894720996
5.58547794774304E+019	8.40026295281673E+020	5.99444411358495E+024	30.5275512826788
5.58553133076329E+019	7.84171515804242E+020	5.99447418923524E+024	30.5274130959735
5.58558471378355E+019	7.28316202496609E+020	5.99450426517302E+024	30.5272749119834
5.5856380968038E+019	6.72460355358774E+020	5.99453434139829E+024	30.5271367307086
5.58569147982405E+019	6.16603974390736E+020	5.99456441791107E+024	30.526998552149
5.71465776073145E+019	5.60747059592495E+020	5.99459449471134E+024	30.5268603763046
5.84362404163885E+019	5.03600481985181E+020	5.99462328267014E+024	30.5267156483924
5.97259032254625E+019	4.45164241568792E+020	5.99465078178748E+024	30.5265643686003
6.10155660345366E+019	3.8543833834333E+020	5.99467699206334E+024	30.5264065371161
6.23052288436106E+019	3.24422772308793E+020	5.99470191349775E+024	30.5262421541279
6.35948916526846E+019	2.62117543465183E+020	5.9947255460907E+024	30.5260712198235
6.48845544617586E+019	1.98522651812498E+020	5.9947478898422E+024	30.5258937343907
6.61742172708327E+019	1.33638097350739E+020	5.99476894475224E+024	30.5257096980175
6.74638800799067E+019	6.74638800799067E+019	5.99478871082084E+024	30.5255191108917
6.87535428889807E+019		5.994807188048E+024	30.5253219732012
		5.99489312997661E+024	30.5254678434754

Sheet1

DELTA-M (kg)	SomDELTA-M (kg)	MCompens,e (kg)	Ftotale (pour 3.1 kg)
4.28318542923383E+018	6.58881873861223E+021	3.96644678789659E+024	30.4537769573353
4.2832264343142E+018	6.584535553183E+021	3.96652816841975E+024	30.4541099683443
4.28326743939458E+018	6.58025232674868E+021	3.96660954972194E+024	30.4544429775608
4.28330844447495E+018	6.57596905930929E+021	3.96669093180318E+024	30.4547759849849
4.28334944955532E+018	6.57168575086481E+021	3.96677231466347E+024	30.4551089906165
4.2833904546357E+018	6.56740240141526E+021	3.96685369830281E+024	30.4554419944558
4.28343145971607E+018	6.56311901096062E+021	3.9669350827212E+024	30.4557749965028
4.28347246479644E+018	6.5588355795009E+021	3.96701646791866E+024	30.4561079967574
4.28351346987682E+018	6.55455210703611E+021	3.96709785389517E+024	30.4564409952198
4.28355447495719E+018	6.55026859356623E+021	3.96717924065075E+024	30.45677399189
4.28359548003757E+018	6.54598503909127E+021	3.96726062818541E+024	30.457106986768
4.28363648511794E+018	6.54170144361123E+021	3.96734201649914E+024	30.4574399798538
4.28367749019831E+018	6.53741780712612E+021	3.96742340559195E+024	30.4577729711476
4.28371849527869E+018	6.53313412963592E+021	3.96750479546384E+024	30.4581059606492
4.28375950035906E+018	6.52885041114064E+021	3.96758618611482E+024	30.4584389483588
4.28380050543943E+018	6.52456665164028E+021	3.96766757754489E+024	30.4587719342763
4.28384151051981E+018	6.52028285113484E+021	3.96774896975405E+024	30.4591049184019
4.28388251560018E+018	6.51599900962432E+021	3.96783036274231E+024	30.4594379007356
4.28392352068056E+018	6.51171512710872E+021	3.96791175650967E+024	30.4597708812774
4.28396452576093E+018	6.50743120358804E+021	3.96799315105614E+024	30.4601038600272
4.2840055308413E+018	6.50314723906228E+021	3.96807454638173E+024	30.4604368369853
4.28404653592168E+018	6.49886323353143E+021	3.96815594248642E+024	30.4607698121516
4.28408754100205E+018	6.49457918699551E+021	3.96823733937023E+024	30.4611027855261
4.28412854608242E+018	6.49029509945451E+021	3.96831873703317E+024	30.4614357571089
4.2841695511628E+018	6.48601097090843E+021	3.96840013547523E+024	30.4617687269
4.28421055624317E+018	6.48172680135726E+021	3.96848153469642E+024	30.4621016948994
4.28425156132355E+018	6.47744259080102E+021	3.96856293469674E+024	30.4624346611072
4.28429256640392E+018	6.4731583392397E+021	3.96864433547621E+024	30.4627676255235
4.28433357148429E+018	6.46887404667329E+021	3.96872573703481E+024	30.4631005881482
4.28437457656467E+018	6.46458971310181E+021	3.96880713937256E+024	30.4634335489813
4.28441558164505E+018	6.46030533852524E+021	3.96888854248946E+024	30.4637665080231
4.28445659261795E+018	6.4560209229436E+021	3.96896994638551E+024	30.4640994652733
4.28449760359085E+018	6.45173646635098E+021	3.96905135106072E+024	30.4644324207322
4.28453861456376E+018	6.44745196874739E+021	3.96913275651508E+024	30.4647653743996
4.28457962553666E+018	6.44316743013282E+021	3.96921416274859E+024	30.4650983262756
4.28462063650957E+018	6.43888285050729E+021	3.96929556976128E+024	30.4654312763603
4.28466164748247E+018	6.43459822987078E+021	3.96937697755313E+024	30.4657642246537
4.28470265845538E+018	6.4303135682233E+021	3.96945838612415E+024	30.4660971711559
4.28474366942828E+018	6.42602886556484E+021	3.96953979547434E+024	30.4664301158667

Sheet1

4.28478468040119E+018	6.42174412189541E+021	3.96962120560372E+024	30.4667630587865
4.28482569137409E+018	6.41745933721501E+021	3.96970261651227E+024	30.467095999915
4.284866702347E+018	6.41317451152364E+021	3.96978402820002E+024	30.4674289392524
4.2849077133199E+018	6.40888964482129E+021	3.96986544066695E+024	30.4677618767987
4.2849487242928E+018	6.40460473710797E+021	3.96994685391308E+024	30.468094812554
4.28498973526571E+018	6.40031978838368E+021	3.97002826793841E+024	30.4684277465183
4.28503074623861E+018	6.39603479864841E+021	3.97010968274294E+024	30.4687606786916
4.28507175721152E+018	6.39174976790217E+021	3.97019109832668E+024	30.4690936090739
4.28511276818442E+018	6.38746469614496E+021	3.97027251468963E+024	30.4694265376653
4.28515377915733E+018	6.38317958337678E+021	3.97035393183179E+024	30.4697594644658
4.28519479013023E+018	6.37889442959762E+021	3.97043534975317E+024	30.4700923894756
4.28523580110314E+018	6.37460923480749E+021	3.97051676845377E+024	30.4704253126945
4.28527681207604E+018	6.37032399900639E+021	3.9705981879336E+024	30.4707582341226
4.28531782304894E+018	6.36603872219431E+021	3.97067960819266E+024	30.47109115376
4.28535883402185E+018	6.36175340437126E+021	3.97076102923095E+024	30.4714240716067
4.28539984499475E+018	6.35746804553724E+021	3.97084245104848E+024	30.4717569876628
4.28544085596766E+018	6.35318264569224E+021	3.97092387364525E+024	30.4720899019282
4.28548186694056E+018	6.34889720483628E+021	3.97100529702126E+024	30.472422814403
4.28552287791347E+018	6.34461172296934E+021	3.97108672117653E+024	30.4727557250873
4.28556388888637E+018	6.34032620009142E+021	3.97116814611105E+024	30.4730886339811
4.28560489985927E+018	6.33604063620254E+021	3.97124957182483E+024	30.4734215410844
4.28564591083219E+018	6.33175503130268E+021	3.97133099831787E+024	30.4737544463972
4.28568692768798E+018	6.32746938539185E+021	3.97141242559017E+024	30.4740873499196
4.28572794454378E+018	6.32318369846416E+021	3.97149385364174E+024	30.4744202516517
4.28576896139958E+018	6.31889797051961E+021	3.97157528247258E+024	30.4747531515933
4.28580997825537E+018	6.31461220155821E+021	3.97165671208268E+024	30.4750860497446
4.28585099511117E+018	6.31032639157996E+021	3.97173814247206E+024	30.4754189461055
4.28589201196697E+018	6.30604054058485E+021	3.97181957364072E+024	30.4757518406762
4.28593302882277E+018	6.30175464857288E+021	3.97190100558867E+024	30.4760847334567
4.28597404567856E+018	6.29746871554406E+021	3.9719824383159E+024	30.4764176244469
4.28601506253436E+018	6.29318274149838E+021	3.97206387182242E+024	30.476750513647
4.28605607939016E+018	6.28889672643584E+021	3.97214530610823E+024	30.477083401057
4.28609709624596E+018	6.28461067035645E+021	3.97222674117335E+024	30.4774162866768
4.28613811310175E+018	6.28032457326021E+021	3.97230817701777E+024	30.4777491705067
4.28617912995755E+018	6.27603843514711E+021	3.97238961364149E+024	30.4780820525464
4.28622014681335E+018	6.27175225601715E+021	3.97247105104453E+024	30.4784149327962
4.28626116366914E+018	6.26746603587034E+021	3.97255248922687E+024	30.478747811256
4.28630218052494E+018	6.26317977470667E+021	3.97263392818854E+024	30.4790806879259
4.28634319738074E+018	6.25889347252614E+021	3.97271536792953E+024	30.479413562806
4.28638421423654E+018	6.25460712932876E+021	3.97279680844985E+024	30.4797464358961
4.28642523109233E+018	6.25032074511452E+021	3.97287824974949E+024	30.4800793071965
4.28646624794813E+018	6.24603431988343E+021	3.97295969182847E+024	30.4804121767071
4.28650726480393E+018	6.24174785363548E+021	3.97304113468679E+024	30.480745044428
4.28654828165973E+018	6.23746134637068E+021	3.97312257832445E+024	30.4810779103591
4.28658929851552E+018	6.23317479808902E+021	3.97320402274145E+024	30.4814107745006
4.28663031537132E+018	6.22888820879051E+021	3.97328546793781E+024	30.4817436368525
4.28667133222712E+018	6.22460157847513E+021	3.97336691391351E+024	30.4820764974147
4.28671234908291E+018	6.22031490714291E+021	3.97344836066858E+024	30.4824093561874
4.28675336593871E+018	6.21602819479382E+021	3.97352980820301E+024	30.4827422131706

Sheet1

4.28679438279451E+018	6.21174144142788E+021	3.9736112565168E+024	30.4830750683643
4.28683539965031E+018	6.20745464704509E+021	3.97369270560996E+024	30.4834079217685
4.2868764165061E+018	6.20316781164544E+021	3.9737741554825E+024	30.4837407733833
4.28691743924961E+018	6.19888093522893E+021	3.97385560613441E+024	30.4840736232088
4.28695846199312E+018	6.19459401778968E+021	3.9739370575657E+024	30.4844064712448
4.28699948473663E+018	6.19030705932769E+021	3.97401850977636E+024	30.4847393174915
4.28704050748014E+018	6.18602005984295E+021	3.97409996276641E+024	30.4850721619489
4.28708153022365E+018	6.18173301933547E+021	3.97418141653585E+024	30.4854050046169
4.28712255296716E+018	6.17744593780525E+021	3.97426287108468E+024	30.4857378454958
4.28716357571066E+018	6.17315881525228E+021	3.9743443264129E+024	30.4860706845854
4.28720459845417E+018	6.16887165167657E+021	3.97442578252052E+024	30.4864035218859
4.28724562119768E+018	6.16458444707812E+021	3.97450723940755E+024	30.4867363573972
4.28728664394119E+018	6.16029720145692E+021	3.97458869707397E+024	30.4870691911194
4.2873276666847E+018	6.15600991481298E+021	3.97467015551982E+024	30.4874020230525
4.28736868942821E+018	6.15172258714629E+021	3.97475161474507E+024	30.4877348531966
4.28740971217172E+018	6.14743521845687E+021	3.97483307474975E+024	30.4880676815517
4.28745073491523E+018	6.14314780874469E+021	3.97491453553384E+024	30.4884005081178
4.28749175765874E+018	6.13886035800978E+021	3.97499599709737E+024	30.488733332895
4.28753278040225E+018	6.13457286625212E+021	3.97507745944032E+024	30.4890661558834
4.28757380314575E+018	6.13028533347172E+021	3.9751589225627E+024	30.4893989770828
4.28761482588926E+018	6.12599775966857E+021	3.97524038646453E+024	30.4897317964935
4.28765584863277E+018	6.12171014484268E+021	3.9753218511458E+024	30.4900646141154
4.28769687137628E+018	6.11742248899405E+021	3.97540331660651E+024	30.4903974299485
4.28773789411979E+018	6.11313479212267E+021	3.97548478284667E+024	30.4907302439929
4.2877789168633E+018	6.10884705422855E+021	3.97556624986629E+024	30.4910630562486
4.28781993960681E+018	6.10455927531169E+021	3.97564771766536E+024	30.4913958667157
4.28786096235032E+018	6.10027145537208E+021	3.9757291862439E+024	30.4917286753942
4.28790198509383E+018	6.09598359440973E+021	3.9758106556019E+024	30.4920614822841
4.28794300783734E+018	6.09169569242464E+021	3.97589212573937E+024	30.4923942873855
4.28798403058084E+018	6.0874077494168E+021	3.97597359665631E+024	30.4927270906984
4.28802505332435E+018	6.08311976538622E+021	3.97605506835273E+024	30.4930598922228
4.28806607606786E+018	6.0788317403329E+021	3.97613654082863E+024	30.4933926919588
4.28810709881137E+018	6.07454367425683E+021	3.97621801408402E+024	30.4937254899064
4.28814812743777E+018	6.07025556715802E+021	3.9762994881189E+024	30.4940582860656
4.28818915606417E+018	6.06596741903058E+021	3.97638096293326E+024	30.4943910804365
4.28823018469057E+018	6.06167922987452E+021	3.97646243852712E+024	30.4947238730191
4.28827121331697E+018	6.05739099968983E+021	3.97654391490046E+024	30.4950566638134
4.28831224194337E+018	6.05310272847651E+021	3.97662539205331E+024	30.4953894528194
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4.28843532782258E+018	6.0402376686648E+021	3.97686982818889E+024	30.4963878091082
4.28847635644898E+018	6.03594923333698E+021	3.97695130845977E+024	30.4967205909616
4.28851738507538E+018	6.03166075698053E+021	3.97703278951017E+024	30.4970533710268
4.28855841370178E+018	6.02737223959545E+021	3.9771142713401E+024	30.4973861493041
4.28859944232818E+018	6.02308368118175E+021	3.97719575394955E+024	30.4977189257933
4.28864047095458E+018	6.01879508173942E+021	3.97727723733853E+024	30.4980517004945
4.28868149958099E+018	6.01450644126847E+021	3.97735872150704E+024	30.4983844734078
4.28872252820739E+018	6.01021775976889E+021	3.97744020645509E+024	30.4987172445332
4.28876355683379E+018	6.00592903724068E+021	3.97752169218269E+024	30.4990500138708

Sheet1

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4.28892767133939E+018	5.98877373684159E+021	3.97784764288857E+024	30.500381073343
4.28896869996579E+018	5.98448480917025E+021	3.97792913251393E+024	30.5007138337418
4.2890097285922E+018	5.98019584047028E+021	3.97801062291886E+024	30.5010465923529
4.2890507572186E+018	5.97590683074169E+021	3.97809211410336E+024	30.5013793491764
4.289091785845E+018	5.97161777998447E+021	3.97817360606743E+024	30.5017121042123
4.2891328144714E+018	5.96732868819862E+021	3.97825509881108E+024	30.5020448574607
4.2891738430978E+018	5.96303955538415E+021	3.97833659233431E+024	30.5023776089216
4.2892148717242E+018	5.95875038154106E+021	3.97841808663713E+024	30.502710358595
4.2892559003506E+018	5.95446116666933E+021	3.97849958171953E+024	30.5030431064809
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4.28933795760341E+018	5.94588261384E+021	3.97866257422312E+024	30.5037085968907
4.43239795856139E+018	5.9415932758824E+021	3.97874407164432E+024	30.5040413394146
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4.71851796047734E+018	5.93258541996432E+021	3.97890663976861E+024	30.5047035346568
4.86157796143532E+018	5.92786690200384E+021	3.97898771047172E+024	30.5050329874381
5.0046379623933E+018	5.92300532404241E+021	3.97906863893547E+024	30.5053613437015
5.14769796335128E+018	5.91800068608001E+021	3.97914942515986E+024	30.5056886034784
5.29075796430925E+018	5.91285298811666E+021	3.97923006914492E+024	30.5060147668002
5.43381796526723E+018	5.90756223015235E+021	3.97931057089062E+024	30.5063398336984
5.57687796622521E+018	5.90212841218709E+021	3.97939093039699E+024	30.5066638042045
5.71993796718319E+018	5.89655153422086E+021	3.97947114766402E+024	30.5069866783499
5.86299796814116E+018	5.89083159625368E+021	3.97955122269172E+024	30.507308456166
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6.14911797005712E+018	5.87896254031644E+021	3.97971094602913E+024	30.5079487229363
6.2921779710151E+018	5.87281342234638E+021	3.97979059433885E+024	30.5082672119534
6.43523797197308E+018	5.86652124437536E+021	3.97987010040926E+024	30.508584604767
6.57829797293105E+018	5.86008600640339E+021	3.97994946424036E+024	30.5089009014085
6.72135797388903E+018	5.85350770843046E+021	3.98002868583215E+024	30.5092161019095
6.86441797484701E+018	5.84678635045657E+021	3.98010776518463E+024	30.5095302063013
7.00747797580499E+018	5.83992193248172E+021	3.98018670229781E+024	30.5098432146154
7.15053797676296E+018	5.83291445450592E+021	3.9802654971717E+024	30.5101551268833
7.2935979772094E+018	5.82576391652916E+021	3.98034414980629E+024	30.5104659431363
7.43665797867892E+018	5.81847031855143E+021	3.98042266020159E+024	30.5107756634059
7.5797179796369E+018	5.81103366057276E+021	3.98050102835761E+024	30.5110842877236
7.7227798059487E+018	5.80345394259312E+021	3.98057925427434E+024	30.5113918161208
7.86583798155285E+018	5.79573116461252E+021	3.9806573379518E+024	30.5116982486288
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8.29501798442678E+018	5.77170447066499E+021	3.98089073554856E+024	30.5126109711329
8.43807798538476E+018	5.76340945268056E+021	3.98096825026895E+024	30.5129130203989
8.58113798634275E+018	5.75497137469518E+021	3.98104562275008E+024	30.5132139739331
8.86734008086187E+018	5.74639023670884E+021	3.98112285299196E+024	30.5135138317667
9.153542175381E+018	5.73752289662798E+021	3.98119979785249E+024	30.5138114984781
9.43974426990012E+018	5.7283693544526E+021	3.98127645733169E+024	30.5141069741302
9.72594636441924E+018	5.7189296101827E+021	3.98135283142955E+024	30.5144002587858
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Sheet1

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1.11569568370149E+019	5.66743785741541E+021	3.98173042119896E+024	30.5158338193166
1.1443158931534E+019	5.65628090057839E+021	3.98180508300889E+024	30.5161139593132
1.17293610260531E+019	5.64483774164686E+021	3.98187945943751E+024	30.5163919087533
1.20155631205722E+019	5.63310838062081E+021	3.98195355048483E+024	30.5166676676997
1.23017652150914E+019	5.62109281750023E+021	3.98202735615084E+024	30.5169412362153
1.25879673096105E+019	5.60879105228514E+021	3.98210087643557E+024	30.5172126143629
1.28741694041296E+019	5.59620308497553E+021	3.982174111339E+024	30.5174818022053
1.31603714986487E+019	5.5833289155714E+021	3.98224706086114E+024	30.5177487998054
1.34465735931679E+019	5.57016854407275E+021	3.98231972500199E+024	30.518013607226
1.3732775687687E+019	5.55672197047958E+021	3.98239210376157E+024	30.5182762245299
1.40189777822061E+019	5.5429891947919E+021	3.98246419713987E+024	30.51853665178
1.43051798767252E+019	5.52897021700969E+021	3.9825360051369E+024	30.5187948890391
1.45913819712444E+019	5.51466503713297E+021	3.98260752775266E+024	30.51905093637
1.48775840657635E+019	5.50007365516172E+021	3.98267876498715E+024	30.5193047938355
1.51637861602826E+019	5.48519607109596E+021	3.98274971684038E+024	30.5195564614986
1.54499882548017E+019	5.47003228493568E+021	3.98282038331236E+024	30.5198059394219
1.57361903493208E+019	5.45458229668087E+021	3.98289076440308E+024	30.5200532276683
1.602239244384E+019	5.43884610633155E+021	3.98296086011255E+024	30.5202983263007
1.63085945383591E+019	5.42282371388771E+021	3.98303067044078E+024	30.5205412353818
1.65947966328782E+019	5.40651511934935E+021	3.98310019538777E+024	30.5207819549745
1.68809987273973E+019	5.38992032271648E+021	3.98316943495352E+024	30.5210204851415
1.71672008219165E+019	5.37303932398908E+021	3.98323838913803E+024	30.5212568259458
1.74535671133812E+019	5.35587212316716E+021	3.98330705794132E+024	30.52149097745
1.7739933404846E+019	5.33841855605378E+021	3.98337544119919E+024	30.5217229384608
1.80262996963107E+019	5.32067862264894E+021	3.98344353891163E+024	30.5219527090411
1.83126659877754E+019	5.30265232295263E+021	3.98351135107866E+024	30.5221802892536
1.85990322792402E+019	5.28433965696485E+021	3.98357887770028E+024	30.5224056791611
1.88853985707049E+019	5.26574062468561E+021	3.98364611877649E+024	30.5226288788267
1.91717648621697E+019	5.2468552261149E+021	3.98371307430731E+024	30.522849888313
1.94581311536344E+019	5.22768346125273E+021	3.98377974429272E+024	30.5230687076829
1.97444974450991E+019	5.2082253300991E+021	3.98384612873273E+024	30.5232853369992
2.00308637365639E+019	5.188480832654E+021	3.98391222762736E+024	30.5234997763247
2.03172300280286E+019	5.16844996891744E+021	3.9839780409766E+024	30.5237120257224
2.06035963194934E+019	5.14813273888941E+021	3.98404356878045E+024	30.523922085255
2.08899626109581E+019	5.12752914256992E+021	3.98410881103893E+024	30.5241299549853
2.11763289024228E+019	5.10663917995896E+021	3.98417376775203E+024	30.5243356349762
2.14626951938876E+019	5.08546285105653E+021	3.98423843891976E+024	30.5245391252904
2.17490614853523E+019	5.06400015586265E+021	3.98430282454212E+024	30.5247404259909
2.20354277768171E+019	5.04225109437729E+021	3.98436692461912E+024	30.5249395371403
2.23217940682818E+019	5.02021566660048E+021	3.98443073915076E+024	30.5251364588016
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2.28945266512113E+019	4.97528571217245E+021	3.98455751157797E+024	30.5255237339108
2.3180892942676E+019	4.95239118552124E+021	3.98462046947355E+024	30.5257140874844
2.34672592341408E+019	4.92921029257856E+021	3.98468314182379E+024	30.5259022518211
2.37536255256055E+019	4.90574303334442E+021	3.98474552862869E+024	30.5260882269837
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Sheet1

2.4326358108535E+019	4.85794941600175E+021	3.98486944560248E+024	30.5264536100376
2.46127243999997E+019	4.83362305789321E+021	3.98493097577138E+024	30.5266330180546
2.48990906914645E+019	4.80901033349321E+021	3.98499222039496E+024	30.5268102371486
2.51854569829292E+019	4.78411124280175E+021	3.98505317947321E+024	30.5269852673825
2.5471823274394E+019	4.75892578581882E+021	3.98511385300616E+024	30.5271581088191
2.57581895658587E+019	4.73345396254442E+021	3.98517424099378E+024	30.5273287615211
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2.69038190346252E+019	4.68136476867832E+021	3.98529387388467E+024	30.5276613100669
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2.80494485033917E+019	4.62698431587469E+021	3.98541121880059E+024	30.5279763410561
2.8622263237775E+019	4.5989348673713E+021	3.98546903326794E+024	30.5281272877811
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2.97678927065415E+019	4.54111752616136E+021	3.98558294622145E+024	30.5284160443198
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3.26319663784578E+019	4.38654991528482E+021	3.98585771871513E+024	30.5290613095467
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3.43504105816076E+019	4.2869355719463E+021	3.98601571828685E+024	30.529395930082
3.49232253159908E+019	4.25258516136469E+021	3.98606724082337E+024	30.5294987145805
3.54960400503741E+019	4.2176619360487E+021	3.98611819136619E+024	30.5295971214483
3.60688547847574E+019	4.18216589599833E+021	3.98616856991534E+024	30.5296911508111
3.66416695191406E+019	4.14609704121357E+021	3.9862183764708E+024	30.5297808027943
3.72144842535239E+019	4.10945537169443E+021	3.98626761103258E+024	30.5298660775237
3.77872989879071E+019	4.07224088744091E+021	3.98631627360069E+024	30.5299469751247
3.83601137222904E+019	4.034453588453E+021	3.98636436417514E+024	30.5300234957229
3.89329284566736E+019	3.99609347473071E+021	3.98641188275591E+024	30.5300956394439
3.95057431910569E+019	3.95716054627404E+021	3.98645882934303E+024	30.5301634064132
4.00785579254402E+019	3.91765480308298E+021	3.98650520393649E+024	30.5302267967564
4.06513726598234E+019	3.87757624515754E+021	3.98655100653629E+024	30.530285810599
4.12241873942067E+019	3.83692487249771E+021	3.98659623714245E+024	30.5303404480666
4.179700212859E+019	3.79570068510351E+021	3.98664089575496E+024	30.5303907092847
4.23698168629732E+019	3.75390368297492E+021	3.98668498237383E+024	30.5304365943789
4.29426315973565E+019	3.71153386611194E+021	3.98672849699906E+024	30.5304781034747
4.33725916681745E+019	3.66859123451459E+021	3.98677143963065E+024	30.5305152366976
4.38025517389926E+019	3.62521864284641E+021	3.98681395312328E+024	30.5305490864862
4.42325118098106E+019	3.58141609110742E+021	3.98685603747695E+024	30.5305796529347
4.46624718806286E+019	3.53718357929761E+021	3.98689769269166E+024	30.5306069361371
4.50924319514467E+019	3.49252110741698E+021	3.98693891876742E+024	30.5306309361878
4.55223920222647E+019	3.44742867546554E+021	3.98697971570422E+024	30.5306516531809
4.59523520930827E+019	3.40190628344327E+021	3.98702008350208E+024	30.5306690872106
4.63823121639008E+019	3.35595393135019E+021	3.98706002216099E+024	30.5306832383711
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Sheet1

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3.37775958470557E+019	4.32071316782327E+021	5.10124998707398E+024	30.5329587037165
3.43504105814269E+019	4.28693557197621E+021	5.10130208160419E+024	30.5329787669527
3.49232253157981E+019	4.25258516139479E+021	5.10135360414071E+024	30.5329954100438
3.54960400501693E+019	4.21766193607899E+021	5.10140455468354E+024	30.5330086330877
3.60688547845405E+019	4.18216589602882E+021	5.10145493323268E+024	30.5330184361828
3.66416695189117E+019	4.14609704124428E+021	5.10150473978814E+024	30.5330248194271
3.72144842532829E+019	4.10945537172537E+021	5.10155397434993E+024	30.5330277829186
3.77872989876542E+019	4.07224088747209E+021	5.10160263691804E+024	30.5330273267555
3.83601137220254E+019	4.03445358848443E+021	5.10165072749248E+024	30.533023451036
3.89329284563966E+019	3.99609347476241E+021	5.10169824607326E+024	30.5330161558581
3.95057431907678E+019	3.95716054630601E+021	5.10174519266037E+024	30.5330054413199
4.0078557925139E+019	3.91765480311524E+021	5.10179156725383E+024	30.5329913075195
4.06513726595102E+019	3.8775762451901E+021	5.10183736985364E+024	30.532973754555
4.12241873938814E+019	3.83692487253059E+021	5.10188260045979E+024	30.5329527825246
4.17970021282526E+019	3.79570068513671E+021	5.1019272590723E+024	30.5329283915262
4.23698168626238E+019	3.75390368300846E+021	5.10197134569117E+024	30.5329005816581
4.29426315969951E+019	3.71153386614583E+021	5.1020148603164E+024	30.5328693530182
4.33725916678565E+019	3.66859123454884E+021	5.102057802948E+024	30.5328347057046
4.38025517387179E+019	3.62521864288098E+021	5.10210031644063E+024	30.5327974934188
4.42325118095793E+019	3.58141609114226E+021	5.1021424007943E+024	30.5327577162344
4.46624718804407E+019	3.53718357933269E+021	5.10218405600901E+024	30.5327153742249
4.50924319513021E+019	3.49252110745224E+021	5.10222528208476E+024	30.532670467464

Sheet1

4.55223920221635E+019	3.44742867550094E+021	5.10226607902157E+024	30.5326229960252
4.5952352093025E+019	3.40190628347878E+021	5.10230644681942E+024	30.5325729599821
4.63823121638864E+019	3.35595393138575E+021	5.10234638547834E+024	30.5325203594083
4.68122722347478E+019	3.30957161922187E+021	5.10238589499831E+024	30.5324651943774
4.72422323056092E+019	3.26275934698712E+021	5.10242497537935E+024	30.532407464963
4.76721923764706E+019	3.21551711468151E+021	5.10246362662147E+024	30.5323471712385
4.8102152447332E+019	3.16784492230504E+021	5.10250184872465E+024	30.5322843132777
4.85321125181934E+019	3.11974276985771E+021	5.10253964168891E+024	30.5322188911541
4.89620725890549E+019	3.07121065733951E+021	5.10257700551424E+024	30.5321509049412
4.93920326599163E+019	3.02224858475046E+021	5.10261394020067E+024	30.5320803547127
4.98219927307777E+019	2.97285655209054E+021	5.10265044574819E+024	30.532007240542
5.02519528016391E+019	2.92303455935977E+021	5.10268652215679E+024	30.5319315625028
5.06819128725005E+019	2.87278260655813E+021	5.10272216942649E+024	30.5318533206686
5.11118729433619E+019	2.82210069368563E+021	5.10275738755729E+024	30.531772515113
5.15418330142233E+019	2.77098882074226E+021	5.1027921765492E+024	30.5316891459095
5.19717930850848E+019	2.71944698772804E+021	5.10282653640221E+024	30.5316032131317
5.24017531559462E+019	2.66747519464296E+021	5.10286046711634E+024	30.5315147168532
5.28317132268076E+019	2.61507344148701E+021	5.10289396869159E+024	30.5314236571475
5.3261673297669E+019	2.5622417282602E+021	5.10292704112795E+024	30.5313300340881
5.36916333685304E+019	2.50898005496253E+021	5.10295968442543E+024	30.5312338477486
5.41215934393918E+019	2.455288421594E+021	5.10299189858405E+024	30.5311350982025
5.45515535102532E+019	2.40116682815461E+021	5.10302368360379E+024	30.5310337855235
5.49815135811147E+019	2.34661527464436E+021	5.10305503948468E+024	30.5309299097849
5.54114736519761E+019	2.29163376106324E+021	5.1030859662267E+024	30.5308234710604
5.58414337228374E+019	2.23622228741127E+021	5.10311646382986E+024	30.5307144694236
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5.58451705341416E+019	1.84532104091749E+021	5.10332694911542E+024	30.5299335697754
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5.58462381945142E+019	1.73363016601902E+021	5.10338709035512E+024	30.529710477739
5.58467720247005E+019	1.67778392782451E+021	5.1034171614061E+024	30.529598935412
5.58473058548868E+019	1.62193715579981E+021	5.10344723274451E+024	30.5294873955459
5.58478396850731E+019	1.56608984994492E+021	5.10347730437035E+024	30.5293758581406
5.58483735152595E+019	1.51024201025985E+021	5.10350737628363E+024	30.529264323196
5.58489073454458E+019	1.45439363674459E+021	5.10353744848434E+024	30.5291527907121
5.58494411756321E+019	1.39854472939914E+021	5.1035675209725E+024	30.529041260689
5.58499750058184E+019	1.34269528822351E+021	5.1035975937481E+024	30.5289297331264
5.58505088360047E+019	1.28684531321769E+021	5.10362766681116E+024	30.5288182080246
5.5851042666191E+019	1.23099480438169E+021	5.10365774016167E+024	30.5287066853833
5.58515764963773E+019	1.1751437617155E+021	5.10368781379964E+024	30.5285951652026
5.58521103265636E+019	1.11929218521912E+021	5.10371788772507E+024	30.5284836474824
5.58526441567499E+019	1.06344007489255E+021	5.10374796193797E+024	30.5283721322227
5.58531779869363E+019	1.0075874307358E+021	5.10377803643834E+024	30.5282606194235
5.58537118171226E+019	9.51734252748869E+020	5.10380811122618E+024	30.5281491090847
5.58542456473089E+019	8.95880540931746E+020	5.10383818630151E+024	30.5280376012063

Sheet1

5.58547794774952E+019	8.40026295284437E+020	5.10386826166431E+024	30.5279260957883
5.58553133076815E+019	7.84171515806942E+020	5.1038983373146E+024	30.5278145928306
5.58558471378678E+019	7.2831620249926E+020	5.10392841325238E+024	30.5277030923333
5.58563809680541E+019	6.72460355361393E+020	5.10395848947766E+024	30.5275915942962
5.58569147982405E+019	6.16603974393338E+020	5.10398856599043E+024	30.5274800987193
5.71465776073723E+019	5.60747059595098E+020	5.10401864279071E+024	30.5273686056027
5.84362404165042E+019	5.03600481987726E+020	5.10404743074951E+024	30.5272494163222
5.9725903225636E+019	4.45164241571221E+020	5.10407492986684E+024	30.5271225310984
6.10155660347679E+019	3.85438338345585E+020	5.10410114014271E+024	30.5269879501521
6.23052288438998E+019	3.24422772310817E+020	5.10412606157711E+024	30.526845673704
6.35948916530316E+019	2.62117543466918E+020	5.10414969417006E+024	30.5266957019748
6.48845544621635E+019	1.98522651813886E+020	5.10417203792156E+024	30.5265380351851
6.61742172712953E+019	1.33638097351723E+020	5.1041930928316E+024	30.5263726735556
6.74638800804272E+019	6.74638800804272E+019	5.1042128589002E+024	30.526199617307
6.8753542889559E+019		5.10423133612736E+024	30.52601886666
		5.10431727805597E+024	30.526240979789

Variation
du Poids(N)

Variation
(Newton/10000)

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0.00949918768658264	94.9918768658264
0.00946424202059148	94.6424202059148
0.00942638519571659	94.2638519571659
0.00938561729550358	93.8561729550358
0.00934193840345188	93.4193840345188
0.00929534860306802	92.9534860306802
0.00924584797789407	92.4584797789407
0.00919343661144012	91.9343661144012
0.00913811458720204	91.3811458720204
0.00907988198871834	90.7988198871834
0.00901873889946359	90.1873889946359
0.0089546854029976	89.546854029976
0.00888772158274165	88.8772158274165
0.00881784752228043	88.1784752228043
0.00874506330506719	87.4506330506719
0.00867009583357614	86.7009583357614
0.0085929451704807	85.929451704807
0.00851361137840456	85.1361137840456
0.00843209451999627	84.3209451999627
0.00834839465792214	83.4839465792214
0.008262511854781	82.62511854781
0.00817444617324625	81.7444617324625
0.00808419767592383	80.8419767592383
0.00799176642549426	79.9176642549426
0.0078971524845457	78.971524845457
0.0078003559157267	78.003559157267
0.00770137678168226	77.0137678168226
0.00760021514500764	76.0021514500764
0.00749687106836561	74.9687106836561
0.00739134461435853	73.9134461435853
0.0072836358456172	72.836358456172
0.00717374482475464	71.7374482475464
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0.00694741627713924	69.4741627713924
0.00683097887563378	68.3097887563378
0.00671235947247695	67.1235947247695
0.00659155813028889	65.9155813028889
0.00646857491165775	64.6857491165775
0.00634340987920368	63.4340987920368
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0.00608653462326103	60.8653462326103
0.00595482452498786	59.5482452498786
0.00582093286330476	58.2093286330476
0.00568485970080701	56.8485970080701

Sheet1

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0.00513185759553281	51.3185759553281
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0.00485537284002291	48.5537284002291
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0.00444066607729354	44.4066607729354
0.00430243592171564	43.0243592171564
0.00416420848205235	41.6420848205235
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0.00319669244721865	31.9669244721865
0.00305848673360387	30.5848673360387
0.00292028373556263	29.2028373556263
0.00278208345305586	27.8208345305586
0.00264388588605868	26.4388588605868
0.0025056910345107	25.056910345107
0.00236749889840127	23.6749889840127
0.00222930947766997	22.2930947766997
0.00209112277228485	20.9112277228485
0.0019529387821926	19.529387821926
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0.00167657894779438	16.7657894779438
0.00153840310340669	15.3840310340669
0.0013936751911956	13.936751911956
0.00124239539909254	12.4239539909254
0.00108456391497214	10.8456391497214
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0.00057176118955482	5.7176118955482
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Variation du Poids(N)	Variation (Newton/10000)
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-0.0153470733751178	-153.470733751178
-0.015223371365078	-152.23371365078
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-0.0149759667038012	-149.759667038012
-0.014852264052557	-148.52264052557
-0.0147285611876065	-147.285611876065
-0.0146048581089318	-146.048581089318
-0.0144811548165578	-144.811548165578
-0.0143574513104561	-143.574513104561
-0.0142337475906409	-142.337475906409
-0.01411004365713	-141.1004365713
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-0.013367815568369	-133.67815568369
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-0.0131204044959361	-131.204044959361
-0.0129966986392063	-129.966986392063
-0.0128729925687985	-128.729925687985
-0.0127492862847198	-127.492862847198
-0.0126255797869632	-126.255797869632
-0.0125018730755393	-125.018730755393
-0.0123781661504516	-123.781661504516
-0.0122544590117144	-122.544590117144
-0.012130751659317	-121.30751659317
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-0.0110173758747258	-110.173758747258
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-0.0101514049696618	-101.514049696618

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Sheet1

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