

Sheet1

Trigonometric	Hyperbolic	Area	Temperatures	Trigonometric
-----	-----	-----	-----	-----
sin(x)	SINH(X)	Circle	C to Fahrenh.	@SIN(C4)
COS(X)	COSH(X)	-----	C to Kelvine	@COS(C4)
TAN(X)	TANH(X)	Volume	C to Rankine	@TAN(C4)
ASIN(X)	CTANH(X)	-----	C to Reaumur	@ASIN(C4)
ACOS(X)	SECH(X)	Cube	F to Centi.	@ACOS(OUT)
ATAN(X)	CSCH(X)	Sphere	F to Kelvine	@ATAN(OUT)
SEC(X)	ASINH(X)	-----	F to Rankine	1/@COS(C4)
CSC(X)	ATANH(X)	Perimeter	F to Reaumur	1/SIN(OUT)
COT(X)	ACTANH(X)	-----	K to Centi.	1/@TAN(OUT)
ASEC(X)	ASECH(X)	Circle	K to Fahrenh.	@ACOS(1/OUT)
ACSC(X)	ACSCH(X)		K to Rankine	@ASIN(1/OUT)
ACOT(X)			K to Reaumur	@PI/2-@ATAN(OUT)
			Ra. to Centi.	
			Ra. to Fahre.	
			Ra. to Kelvin	
			Ra. to Reaumu	
			Re. to Centi.	
			Re. to Fahre.	
			Re. to Kelvin	
			Re. to Rankin	

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Hyperbolic	Area	Temperatures
-----	-----	-----
0.5*(@EXP(C4)-@EXP(C4))	@PI*T^2	+1.8*OUT+32
0.5*(@EXP(C4)+@EXP(-C4))	-----	+OUT+273.15
(@EXP(OUT)-@EXP(-OUT))/(@EXP(OUT)+@EXP(-OUT))	Volume	+1.8*OUT+491.67
(@EXP(OUT)+@EXP(-OUT))/(@EXP(OUT)-@EXP(-OUT))	-----	+0.8*OUT
2/(@EXP(OUT)+@EXP(-OUT))	+out^3	+5*(OUT-32)/9
2/(@EXP(OUT)-@EXP(-OUT))	+4*@pi*out^3/3	+5*(OUT-32)/9+273.15
@LN(OUT+@SQRT(OUT^2+1))	-----	+OUT+459.67
0.5*@LN((1+OUT)/(1-OUT))	Perimeter	+0.8*(5*(OUT-32)/9)
0.5*@LN((OUT+1)/(OUT-1))	-----	+OUT-273.15
@LN(1/OUT+@SQRT(1/(OUT^2)-1))	@pi*OUT*2	+1.8*OUT-459.67
@LN(1/OUT+@SQRT(1/(OUT^2)+1))		+1.8*OUT
+RG1^RG2		+0.8*OUT-218.52
		+5*OUT/9-273.15
		+OUT-459.67
		+5*OUT/9
		+4*OUT/9-218.52
		+1.25*OUT
		+2.25*OUT+32
		+1.25*OUT+273.15
		+2.25*OUT+491.67

Trigonometric	Hyperbolic	Area
-----	-----	-----
This function calculates the sine function fnssss		Circle area where the radius=out -----
		Volume -----
		-----
		Perimeter -----

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Temperatures	Length units	Area units	Volume units	Mass
-----	-----	-----	-----	-----
Centigrade to Fahrenheit	Angstrom	meter^2	Bushel (US)	Cental (UK)
Centigrade to Kelvine	Centimeter	millimeter^2	Bushel (UK)	Dram,av.
Centigrade to Rankine	Decameter	centimeter^2	centimeter^3	Grain
Centigrade to Reaumur	Decimeter	decimeter^2	decimeter^3	Gram
Fahrenheit to Centigrade	Dis. of siriu	decameter^2	Dry pint	Hund.weight.s
Fahrenheit to Kelvin	Foot	hectometer^2	Dry quart	Hund.weight
Fahrenheit to Rankine	Inch	kilometer^2	Fluid dr (US)	Hund.weight.l
Fahrenheit to Reaumur	Hectometer	Circular inch	Fluid dr (UK)	Kilogram
Kelvin to Centigrade	Light year	inch^2	Fluid oz (US)	Metric ton
Kelvin to Fahrenheit	Kilometer	yard^2	Fluid oz (UK)	Microgram
Kelvin to Rankine	Knot(UK)	Foot^2	Foot^3 (US)	Miligram
Kelvin to Reaumur	Knot(INTL.)	Acre	Foot^3 (UK)	Ounce,av.
Rankine to Centigrade	Meter	Mile^2	Gallon (US)	Pound,av.
Rankine to Fahrenheit	Micrometer	-----	Gallon (UK)	Ton (UK)
Rankine to Kelvin	Mile(US)	Acceleration	Gill (US)	Ton long (US)
Rankine to Reaumur	Mile(UK)	-----	Gill (UK)	Ton short(US)
Reaumur to Centigrade	Milimeter	cm/sec^2	inch^3 (US)	-----
Reaumur to Fahrenheit	Nanometer	Foot/sec^2	inch^3 (UK)	Troy weight
Reaumur to Kelvin	Parsec	Galilei	Liter	-----
Reaumur to Rankine	Siriometer	km/hour/sec	Liquid pt(US)	Carat
	X-unit	Meter/sec^2	Liquid qt(US)	Dram,ap (US)
	Yard(US)	Mile/hour/sec	meter^3	Drachm,ap(UK)
	Yard(UK)	-----	Micrometer^3	Grain
	-----	Angular accel	millimeter^3	Gram
	Pressure	-----	Minim (US)	Ounce,troy
	-----	Degree/sec^2	Minim (UK)	Pennyweight
	Atm. (tech.)	Grade/sec^2	Peck (US)	Pound,troy
	Atm.(physic.)	Radian/sec^2	Peck (UK)	Pound,av
	Bar	rev/min/sec	Pint (UK)	Scruple,ap
	Foot-water	rev/min^2	Quart (UK)	-----
	gr-force/cm^2	-----	yard^3 (US)	Force
	Inch-water	Energy	yard^3 (UK)	-----
	Inch-mercury	-----	-----	Dyne
	Lb-force/ft^2	BTU	Power	Grain-force
	Lb-force/in^2	Calorie	-----	Gram-force
	kg-force/m^2	Centimeter^-1	BTU/sec	kg-force
	Milibar	Degree Kelvin	Calorie/sec	Kilopond
	mm of water	Electron-volt	Erg/sec	Newton
	mm of mercury	Erg	Horsepower	Pond
	Newton/m^2	Gram	Kilo-watt	Poundal (US)
	Ton-forc/ft^2	Hpower-hour	Meter-kgf/sec	Pound-force
		Joule	Watt	
		Kilo-calorie	-----	
		Kwatt-hour	Work	
		Liter-atm	-----	
		Mass unit	BTU*second	
		Meter-kg-forc	Calorie*sec	

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Ryberg	Erg*second
Second^-1	eV*second
	Joule*second
	Meter-kgf*sec
	Plank's const

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Plane angles	Length units	Area units	Volume units	Mass	Angles
Cent.minute	0.00000001	10000	35239.27667212	45359.24	0.009
Cent.second	1	0.01	39368.8022956	1.771845	0.00009
Degree	1000	1	1	0.06479892	1
Minute	10	100	1000.028	1	0.016
Rad	1.541873E+019	1000000	550.752567552	45359.24	57.29578
Right angle	30.48	100000000	1101.227833516	50802.35	90
revolution	2.54	10000000000	3.69671350508	50802.35	360
Second	10000	5.067057	3.551633442952	1000	0.9
-----	9.46053E+017	6.451626	29.57370804064	1000000	-----
Spher. angles	100000	8361.307	28.41306554356	0.000001	Spher. angles
-----	185318.1	929.0341	28317.02	0.001	-----
Square degree	185200	40468730	28316.7	28.34953	1
Square grade	100	25899980000	3785.434989212	453.5924	0.81
Steradian	0.0001	-----	4546.090286964	1016047	3826.806
-----	160934.7	Acceleration	118.2981122544	1016047	-----
Velocity	160934.1	-----	142.0652777164	907184.9	Velocity
-----	0.1	1	16.38716	-----	-----
cm/sec	0.0000001	30.48	16.38698	Troy weight	0.01
Feet/minute	3.083745E+018	1	1000	-----	0.00508
Feet/sec	1.495042E+019	27	473.1793486508	0.2	0.3048
Kilometer/hr	1.002E-11	100	946.3850980408	3.887935	0.27
Kilometer/sec	91.44018	44.704	1000000	3.887935	1000
Knots (Intl.)	91.43984	-----	1E-12	0.06479892	0.514
Knots (UK)	-----	Angular accel	0.001	1	0.5147724
Meter/sec	Pressure	-----	0.06161188508448	31.10348	1
Meter/minute	-----	10	0.05919388738244	1.555174	0.016
Miles/hour	98066.65	9	8809.820668072	373.2418	44.704
Miles/sec	101325	572.9578	9092.180573928	453.5924	1609.344
-----	100000	60	568.2613108712	1.295978	-----
Ang. velocity	2988.983	1	1136.522821748	-----	Ang. velocity
-----	98.0665	-----	764559.4	Force	-----
Grades/minute	249.0824	Energy	764550.9	-----	3.6
Grades/sec	3386.395	-----	-----	1	216
rad/minute	47.88027	1.17473587E-11	Power	63.54603	229.1831
rad/sec	6894.758	4.656996575E-14	-----	980.665	1.375099
rev/day	9.80665	0	1055.8	980665	1
rev/hour	100	0	4.1855	980665	24
rev/minute	9.806375	0	0.0000001	100000	1440
rev/sec	133.3224	0	735.4988	980.665	86400
-----	1	1	1000	13825.52	-----
-----	1072518	2.9460702194E-08	9.80665	448222	-----
-----	-----	1.1E-14	1	-----	-----
-----	-----	4.656996575E-11	-----	-----	-----
-----	-----	0.0000000400554	Work	-----	-----
-----	-----	1.1274237667E-12	-----	-----	-----
-----	-----	0	1055.8	-----	-----
-----	-----	1.09113691225E-13	4.1855	-----	-----

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0	0.0000001
0	0
	1
	9.80665
	0

## Sheet1

Area

-----

Square meter

## Rectangle

Square millimeter

## Ellipse

Square centimeter

## Parabola

Square decimeter

Polygon 1

Distance of sirius      Square decameter

Hundredweight,short (US)

Square hectometer

Hundredweight (UK)

Square kilometer

Hundredweight,long (US)

Triag\_area

Circle sector



Square centimeter

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Volume	Perimeter	Area
-----	-----	-----
Cone	Ellipse	+E118*G118
Cylinder	Polygon 2	+@PI*A*B
Paraboloid	Polygon 3	+2*A*B/3
Torus		+E118*G118^2/@TAN(@PI/E118)/4
		0.5*E118*G118^2*@SIN(2*@PI/E118)
		+E118*G118^2*@TAN(@PI/E118)
		0.5*E118*G118
		+A^2*B/2

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Volume	Perimeter
-----	-----
@pi*rg1^2*rg2/3	2*@pi*@sqrt(0.5*(rg1^2+rg2^2))
@pi*rg1^2*rg2	2*rg1*rg2*@sin(@pi/rg1)
@pi*rg1^2*rg2/2	2*rg1*rg2*@tan(@pi/rg1)
@PI^2*((E118+G118)*(E118-G118)^2)/4	

Area

-----

Ellipse of semi-major axis RG1 and semi-minor axis RG2

Segment of a parabola with height RG1 and base RG2

Regular polygon of RG1 sides each of length RG2

Regular polygon of RG1 sides inscribed in a circle of radius RG2

Regular polygon of RG1 sides circumscribing a circle of radius RG2

TRIANGLE AREA: GIVEN, ALTITUDE=RG1 AND BASE=RG2

Sector of a circle of radius RG1 and angle RG2 (RADIANS)

Volume

-----

Right cone of base radius RG1 and height RG2

Right cylinder of radius RG1 and height RG2

Paraboloid of revolution of radius RG1 and height RG2

Torus of inner radius RG1 and outer radius RG2

Perimeter

-----

Ellipse of semi-major axis  $RG1$  and semi-minor axis  $RG2$

Regular polygon of  $RG1$  sides inscribed in a circle of radius  $RG2$

Regular polygon of  $RG1$  sides circumscribing a circle of radius  $RG2$

Area	Radius	Volume	Area
-----	-----	-----	-----
PARALLELOGRAM	CIR. IN TRIAN	Ellipsoid	+E118*G118*@SIN(rg3)
TRAPEZOID	TRIAN. IN CIR		+0.5*A*(B+C)

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Radius

Volume

$$\frac{\sqrt{0.5(A+B+C) \cdot 0.5(B+C-A) \cdot 0.5(A+C-B) \cdot 0.5(A+B-C)}}{0.5(A+B+C)} \cdot \frac{4\pi r_1 r_2 r_3}{3}$$

$$\frac{A \cdot B \cdot C}{\sqrt{0.5(A+B+C) \cdot 0.5(B+C-A) \cdot 0.5(A+C-B) \cdot 0.5(A+B-C)}} \cdot \frac{4}{3}$$



Area

-----

Parallelogram area with BASE=RG1, SIDE=RG2, ANGLE=RG1

Trapezoid of altitude (RG1) and parallel sides RG2 and RG3

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Radius

-----

Radius of a circle inscribed in a triangle of sides RG1, RG2, RG3

Radius of a circle circumscribing a triangle of sides RG1, RG2, RG3

Volume

-----

Ellipsoid of semi-axes RG1, RG2, RG3

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mmmmmmmmmmmm

mmmmmmmmmmmm

mmmmmmmmmmmm

mmmmmmmmmmmm

mmmmmmmmmmmm

sssss

mmmmmmmmmmmm

sssss

mmmmmmmmmmmm  
mmmmmmmmmmmm

SUM  
AVG  
MAX  
MIN  
STD  
VAR  
COUNT  
RANGE

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@SUM(FA1..FA8192)  
@AVG(FA1..FA8192)  
@MAX(FA1..FA8192)  
@MIN(FA1..FA8192)  
@STD(FA1..FA8192)  
@VAR(FA1..FA8192)  
@COUNT(FA1..FA8192)  
@MAX(FA1..FA8192)-@MIN(FA1..FA8192)  
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calculate the sum of a list of numbers  
Calculate the average of a list of values  
Find the largest value in the list  
Find the smallest value in a list of numbers  
Calculate the standard deviation of the list of values  
Calculate the variance of the values in the list