

|      |       |    |              |   |
|------|-------|----|--------------|---|
| =    |       | == |              | = |
|      | Units |    | Output/Input |   |
| =    |       | == |              | = |
| None |       |    |              | 0 |
| =    |       | == |              | = |

\0 {esc 5} {SIZE} {DISP} {PANELoff} {wi

nnn {err1} {ESC 5} {IF FLAG10=0} {windo  
 {err1} {goto}et21~{WINDOWSON} {m

setup FiScientific cu  
 FiExponential format (x.xxExx) C  
 {{esc 5} {err1} {getlabel "Enter numbe{  
 \{window}~/wgfs {  
 2 3 4  
 ~~{window}~/wgfs ~  
 2 3  
 ~~{menubranh setup} ~

solver InDifferentiation C  
 InDiferentiation of functions and data R  
 {{esc 5} {err1} {LET VAR,1}~{MEN{  
 {1{menubranh solver} {  
 {1{MENUBRANCH Main} {1  
 {1

Helpp DUp N  
 MMove one cell up N  
 {c{up} {1  
 {1{menubranh helpp} {1

bab {esc 5} {err1} {INDICATE WORK} {W  
 {let point6i,(@count(ev1..ev8192)-1)} {

```
{let rg3,@count(ew1..ew8192)} {let ski  
/cex1~ex1..ex  
49  
~  
/cey1~ey1..ey  
49  
~  
{CALC}  
{goto}ey2~{end} {down} {UP 2} {let ou  
{INDICATE} {GOTO}EV1~{windows
```

300

0.10.0.00000000000000

0.

bbb

```
{esc 5} {err1} {INDICATE WORK} {W  
/REEV2..EZ8192~{let step,(rg2-rg1)/rg  
{goto}ev1~  
/cev1~ev1..ev  
103  
~  
/dfew1..ew  
103  
~  
0.0000000000000000  
~  
0.1000000000000000  
~  
10.2000000000000001  
~  
/cex1~ex1..ex  
103  
~  
/cey1~ey1..ey  
103  
~
```

```

/cez1~ez1..ez
103
~{calc}
{goto}ey2~{end} {down} {up 3} {let out
{INDICATE} {goto}ev1~{windowson}

```

```

inp      {esc 5} {err1} {INDICATE INPUT} {get
         {IF RG1=1096300} {QUIT}
         {getlabel "Input the upper limit - ",rg2}
         {getlabel "Input the number of steps - ",
         {INDICATE WORK}~{return}

```

```

left1    {let dummy4,dummy4-1}~{if dummy4=
         {if dummy4<4} {left}
         {return}~

```

```

savve    NQuit_123                Pi
         CYes quit LOTUS 123      Y
         {/qyyy{esc}              /v
         {menubranh savve}

```

```

right1   {let dummy4,dummy4+1}~{if dummy4
         {if dummy4>0} {right}
         {return}~

```

```

dummy4   0
dummy    1                R
dummy1   ##              R

```

|         |  |                   |
|---------|--|-------------------|
| dummy2  | #  |                   |
| mark    | {let point1r,@cellpointer("address")}~<br>{return}   |                   |
| hiding  | {unhiding<br>a1..<br>##<br>~{esc 5}{right}{calc}/wch<br>##<br>iv1~{esc 5}{return}          | {€                |
| hiding2 | {unhiding2<br>a1..<br>##<br>~{esc 5}{right 4}{calc}/wch<br>##<br>iv1~{left}{esc 5}{return} | {€                |
| view1   | DUp<br>MMove one cell up<br>{WINDOWSON}{up}<br>{1menubranh view1}                          | N<br>N<br>{<br>{1 |
| SAVE2   | {esc 5}/FXF{ESC 2}<br>ssss<br>~IT1..IT8192~r{esc 2}{RETURN}                                |                   |
| RETRIV2 | {esc 5}{LET POINT1Q,@RIGHT(@C1<br>/Fr{esc 2}   |                   |

~

DUMMY3

line1

\a /WCS132~{RIGHT}

bAC

```

{€ D
{1
{goto}FB1~/refb1..ff8192~
/dfFB1..FB
8
~
2.5000000000000000
~
0.1000000000000000
~
3.2000000000000000
~
{goto}fa1~/dd{esc}..{end} {down}~fb1.
8
~
{let skipp,@string(@COUNT(FB1..FB)
2
~{ESC 3}
/gtbxfb1..fb
8
~
afc1..fc
8
~v{esc 3} {windowson} {return}

```

bAD

```

{esc 5} {err1} {WINDOWSOFF} {let po
{let point2K,MIN1}~{let point3K,step1
{goto}Fa1~/refb2..fE8192~
/dfFB1..FB
20
~

```

```
2.5000000000000000
~
0.0350000000000000
~
3.2000000000000000
~
{let skipp,@string(@COUNT(FB1..FB1
5
~{ESC 3}/CFC1~FC1..FC
20
~/gOFGLQQtlxfb1..fb
20
~
afc1..fc
20
~
v{esc 3}{windowson}{return}

##                               #DIV/0!##
```

data

```
{esc 5}{err1}{WINDOWSOFF}/cpoint
fa1..fc
40
~
/rncrrat~
fa1..fc
40
~
/pf{esc}{esc}
TEST1
~rrrat
~ouqgq{ESC 3}{WINDOWSON}{ret
```

dataa

```
{€                               ec
ev1..ey
102
```

```

~
/ncrratt~
ev1..ey
102
~
/pf{esc} {esc}
ZZZ
~rratt
~oouqgq{ESC 3} {WINDOWSON} {ret

```

```
ERR1 {esc 5} {ONERROR TEST1,ERRMSG}
```

```
TEST1 {if flag10=0} {BEEP} {getlabel "Default
{esc 5} {windowson} {DISP} {GOTO}E
```

```
edit2 DUp R
MMove one cell up M
{c{up} {i
{i{menubranh edit2} {i
```

```
graf Bafter D
TThe function after integration S;
{{esc 5} {err1} {windowsoff} {esc 3} {{c
ototfProcessed function vs. VAR~TX\{i
13
~~
{{esc}v{esc 3} {left} {windowson}
{i{menubranh graf}
```

```

MAIN          CSolver          Fe
              CIntegration and differentiation of funS
              {{esc 5} {err1} {menuCALL solver} {e
              {{MENUBRANCH Main}          {l

```

```

menu1        m          Functions          U
              ACalculate mathematical functions      S
              {{esc 5} {err1} {if flag8=1} {branch p{e
              {{goto} output1~{windowsoff} {goto}}{l
              {{err1} {goto} iu1~{LET FLAG8,1} {{l{
              {{menuBRANCH menu1} {BRANCH l

```

```

Arith        +          -          *
              ASubtruction          M
              {{esc 5} {err1} {getnumber "Input val{e
              {{let out,out-out1}~          {l
              {{menubranh arith}          {l

```

```

MEMO        M          - M          M
              ASubtract from the memory          M
              {{ESC 5} {let out2,out2-out}~          {l
              {{MENUBRANCH MEMO}          {l

```



func

DUp

R

MMove one cell up

M

{c{up}

{1

{1{menubranh func}

{1

|       |   |    |
|-------|---|----|
| unit1 | CInsert_edit_unit                       | O  |
|       | SInsert a new unit above the highlightO |    |
|       | {I{INDICATE} {let flag11,0}~{ESC 5{     |    |
|       | {I{menubrand unit1} {goto}iu1~ {I       |    |
|       | {menubrand unit1} {goto}iu1~            |    |
| unit2 | DUp                                     | R  |
|       | MMove one cell up                       | M  |
|       | {c{up}                                  | {I |
|       | {I{menubrand unit2}                     | {I |

|      |   |    |
|------|---|----|
| stat | CImport_edit                            | Fi |
|      | CEditing, Importing or adding statistic | Fi |
|      | {I{ESC 5} {WINDOWSOFF} {err1} {e{       |    |
|      | {e{menuBRANCH stat}                     | {e |
|      | {menubranchn stat}                      | {f |
|      |   | {i |

## #DIV/0!##

|       |                       |    |
|-------|-----------------------|----|
| STAT1 | DU                    | N  |
|       | MMove one cell up     | Ir |
|       | {c{up}                | {l |
|       | ~~{menubranchn stat1} | {l |
|       |                       | ~  |

|        |                |    |
|--------|----------------|----|
| NORMAL | {leditstat     | Ir |
|        | {f             | Ir |
|        | {bAD} {RETURN} | {l |
|        |                | {i |

|           |  |   |
|-----------|--|---|
| integral1 | FiData                                   | H |
|           | IrIntegrate a function imported as a fil | O |
|           | {I{ESC 5} {err1} {LET FLAG9,2} {get{     |   |
|           | {I{WINDOWSOFF} {if dummy<>""} {f         |   |

|          |  |    |
|----------|--|----|
| integral | RTrapezoid                             | A  |
|          | RTrapezoid rule of integration         | R  |
|          | {I{ESC 5} {err1} {WINDOWSOFF} {i{      |    |
|          | {e{err1} {WINDOWSOFF} {if dummy{e      |    |
|          | {I{let ex1,"+(ev2+ev1)*(ew2-ew1)/2"}{  |    |
|          | {f{goto} ex1~{edit} {home} {del}~{got{ |    |
|          | {i{if dummy=1}~{bbb}                   | {i |
|          | {i{if dummy=2}~{bab}                   | {i |

{l{MENUbranch integral} {l

DIFF

FData H  
DDifferentiate a function imported as O  
{l{ESC 5} {err1} {LET FLAG9,2} {get{  
{l{WINDOWSOFF} {if dummy<>""} {&

diff1

12nd order 3i  
UUses  $dy^2/dx^2=(Y2-2*Y1+Y0)/h^2$ , (U  
{l{ESC 5} {err1} {WINDOWSOFF} {i{  
{err1} {WINDOWSOFF} {if dummy{  
{l{let ex1,"+(ev3-2\*EV2+ev1)/((ew2-  
{l{let eY1,"+(ev3-2\*EV2+ev1)/((ew2-  
{g} {goto} ex1~{edit} {home} {del}~ {&  
{g} {goto} ey1~{edit} {home} {del}~ {&  
{i{if dummy=1}~{bbb} {i  
{i{if dummy=2}~{bAb} {i  
{l{MENUbranch diff1} {l

Polynomial curvefit subroutine

\*\*\*\*\*'dummy1a

2

ROOT FINDING ROUTINE

\*\*\*\*\*



|        |        |   |
|--------|--------|---|
| INPUT3 | In     | T |
| input2 | In     |   |
| input1 | In     |   |
| flag1  | oflag2 | 0 |
| flag4  | oflag5 | 0 |
| FLAG8  | oFLAG9 | 0 |
| ERRMSG |        |   |

WARN

Please import a data file first

warn1

Working... please wait



LINEAR

InMultiply\_matrices

L

InMultiply two ranges as matrices or vS  
 {1{menucall impedit1} {1  
 {1{menubranh linear} {1

impedit REdit C  
 REdit a matrix or a vector C  
 {I{GOTO} WARN1~{WINDOWSON}{  
 {I{menubranh impedit} {1  
 MATRIX  
 ~{GOTO} GA1~{WINDOWSON} {mer

hiding3 {left} {calc}/wch  
 a1..  
 ##  
 ~{esc 5} {goto}is1~{calc}/wch  
 ##  
 iv1~{esc 5} {return}

Eedit {goto}ga1~{hiding3} {windowson} {par

ddata {WINDOWSOFF} {err1}/rncrac~ga1..ii  
 /fx{esc} {esc}  
 LLLL  
 ~rac~  
 R{ESC} {return}

impedit1 R1st\_matrix\_edit 2i  
 REdit the 1st matrix E  
 {I{GOTO} WARN1~{WINDOWSON}{  
 {I{menubranh impedit1} {1  
 matrix

~{GOTO}GA1~{WINDOWSON} {mer

impedit2

R1st\_matrix\_edit 21

REdit the 1st matrix E

{I{GOTO} WARN1~{WINDOWSON}{

{\{menubranh impedit2} {1

LINEAR

~{GOTO}GA1~{WINDOWSON} {mer

```

=                                     =      #NAME?
      Memory                          |
=                                     =
=                                     0|      5
=                                     =      0
                                           1.541873E+019

```

```

ndowsoff} {LET DUMMY,@SECOND(@NOW)}~{windowson} {windowsoff} {let

```

```

wsoff} {GOTO} L1~/FCCEFORMULAS.WK1~{LET FLAG10,1}~{TIM}
enucall main} {BRANCH NNN}

```

|                                    |  |
|------------------------------------|--|
| General                            | Percent  |
| Standard format (x.xx or x.xxE+xx) | Percent format (x.xx%) [ESC] - Previous menu                     |
| {esc 5} {err1} {window}~/wgfg      | {esc 5} {err1} {getlabel "Enter number of decimal places"}~/wgfp |
| ~{window}~/wgfg                    | {window}~/wgfp   |
| {esc 3} {menubran setup}           | 4  |
| {window}~/wgfc                     | ~{window}~/wgfp  |
| {menubran setup}                   | ~{menubran setup}  |

|  |       |
|--|-------|
| Root_find  | MHelp |
| Root finding problems (for example: ClrOn line help)   |       |
| {esc 5} {err1} {if flag3=1} {branch poi}{{esc 5} {err1} {goto}IU1~{windowsoff} {goto}ROO{1}{goback} {windowson} {menubran solver} {let flag3,1}~/reev1..IR8192~{LET VAR,1} {menucall ROOTmenu} {menubran solver} |       |

|                 |                  |
|-----------------|------------------|
| Previous        |                  |
| Previous page   | [ESC] - Previous |
| {pgup}~         |                  |
| {menubran help} |                  |

```

BAB1                                     /REEV2..IR8192{IF FLAG10=1#OR#@CELL
let point6i,@string(point6i,0)}~/cpoint{goto}ev1~ {RETURN}

```

```
op,@STRING(rg3/4,0)}~  
/fin{esc 2}  
isra4  
~
```

```
t,@cellpointer("contents"))~{left 3}/re.{right 3}{down 10}~{esc 3}  
on}{return}
```

```
00000000000000
```

```
INDOWSOFF}{goto}warn1~{windowson}{windowsoff}{let point1h,@string((rg3+  
3)~{let point3h,@string(rg1,15)}~{let point4h,@string(step,15)}~{let point5h,@stri
```

```
,@cellpointer("contents");~{down}/re{left 3}{down 10}~  
{windowsoff}{return}
```

```
label "Input the lower limit - ",rg1}{let rg1,@value(rg1)}{if @STRING(rg1,0)=""}{
```

```
{let rg2,@value(rg2)}{if @STRING(rg2,0)=""}{esc}  
rg3}{let rg3,@value(rg3)}{if @STRING(rg3,0)=""}{esc}
```

```
=-1}{let dummy4,4}~{right 4}
```

|  |  |
|--|--|
| Save   | Dos                                      |
| Save the formuals                                    | Exit to DOS without quitting the program |
| {esc 5}{err1}/FXF{ESC 2}FORMUL{esc 5}{err1}{esc 3}/s |  |
| r  | {menubranh savve}                        |

```
=5}{let dummy4,0}~{left 4}
```

1096300R

10RG3

50

4RG5

RG6

```

hiding1      {unhiding1      {esc 5}/wcdal..iv1~{return}
a1..
##
~{esc 5}{right 3}{calc}/wch
##
iv1~{left 2}{esc 5}{return}

```

```

esc 5}/wcdal..iv1~{return}      R{esc 5}{LET PGOBACK      {ESC 5}{GOT
/Fcce                          $EB$12
ssss                            ~{WINDOWS
~{WINDOWSON}{RETURN}

```

```

Previous      ESave
Previous page ESave the description file
{WINDOWSON} {pgup}~      {esc 5}{WINDOWSOFF}{getlabel "File nar
{menubranchn view1}      {1{IF DUMMY=""}{LET OUT,"FN"}~{LET
{LET POINT1Z,DUMMY}~{LET OUT,"FN
{WINDOWSON}{WINDOWSOFF}{menul

```

ELLPOINTER("CONTENTS"),@LENGTH(@CELLPOINTER("CONTENTS"))-2)

```
{BREAKOFF}  
{RETURN}
```

.fb

```
3192)/4,0)}~/CSKIPP~POINT8j~{ESC 3}/GRGOTXData~TYFrequency~TFFreque:
```

```
int1K,@string(RG3,0)} {LET STEP,(@MAX(FA1..FA8192)-@MIN(FA1..FA8192))  
} {let point4K,max1}~/cpoint1K~point5K~/cpoint1K~point6K~/CPOINT1K~POIN1
```



3192)/4,0)}~/CSKIPP~POINT8k~{ESC 3}/GRGOTXData~TYProbability~TFNorm:

#DIV/0!##

:1k~point10k~/cpoint1k~point11k~{esc 3}/rncrat~

urn}

{if flag11=0} {windowsoff}/M. {end} {down}~{down}~{WINDOWSON} {WINDOV  
{if flag11=2} {windowsoff} {down}/m. {end} {down}~{up}~{RIGHT 5}/M. {END} {  
{return}

urn}

: and program's directory should be the same!! Press [ENTER] ...",DUMMY}~/WEY  
RRMSG~{DOWN}{GETLABEL "PRESS [ENTER] TO RESTART ...",DUMMY

| Left   | NPrevious      | Edit                            | Help         |
|--|----------------|---------------------------------|--------------|
| Move one cell to the left  | NPrevious page | Edit or add a ft                | On line help |
| {left1}  | {pgup}~        | {IF FLAG11=:{esc 5}{err1}{      |              |
| {menubbranch edit2}  | {menubbranch e | {esc 5}{err1}{err1}{if flag7:   |              |
|  |                | {right 5}{hidin{err1}{if flag7: |              |
|  |                | {right 5}{WIN{goback}{WIN       |              |
|  |                | {IF @UPPER(                     |              |
|  |                | {if dummy=""#                   |              |
|  |                | {IF DUMMY<                      |              |
|  |                | {windowson}{                    |              |
|  |                | {WINDOWSCO                      |              |
| Graph_save   |                |                                 |              |
| Save graph as a .PIC file  |                |                                 |              |
| {esc 5}{err1}{GETLABEL "Input file name - ",point7n}~{if point7n=""}{branch pc |                |                                 |              |
| /GS{esc}   |                |                                 |              |
|  |                |                                 |              |
| ~rq{menubbranch graf}  |                |                                 |              |

|   |   |
|---|---|
| Quit  | Help                                      |
| Quit, Save FORMULAS.WK1 file, or On line help |   |
| {esc 5} {err1} {menucall savve}               | {esc 5} {err1} {MARK} {windowsoff} {GOTO} |
| {MENUBRANCH Main}                             | {GOBACK} {windowson} {MENUBRANCH          |

|  |   |
|--|---|
| Statistics                                 | leHelp                                    |
| Editing or calculating statistic function  | On line help [ESC]                        |
| {esc 5} {err1} {let flag6,1} {let flag7,3} | {esc 5} {err1} {MARK} {windowsoff} {GOTO} |
| {menuBRANCH menu1}                         | {GOBACK} {WINDOWSON} {MENUBRA             |
| {branch nnn}                               | {branch nnn}                              |
| NNN}                                       |   |

|   |  |               |              |
|---|--|---------------|--------------|
| /                                       | X^2  | Memory        | Help         |
| Division                                | Power of 2                                     | Memory functi | On line help |
| {esc 5} {err1} {getnumber "Input value" | {esc 5} {err1} {esc 5} {err1} {esc 5} {err1} { |               |              |
| {let out,out/out1}~                     | {MENUBRAN                                      | {MENUBRAN     | {GOBACK} {\  |
| {menubran arith}                        |  |               |              |

|                              |                                  |                  |               |              |
|------------------------------|----------------------------------|------------------|---------------|--------------|
| / M                          | M                                | R M              | X M           | Help         |
| Divide memory                | C                                | Transfer the va  | Exchange outp | On line help |
| {ESC 5} {let out2,out2/out}~ | {ESC 5} {esc 5} {esc 5} {let dur | {esc 5} {err1} { |               |              |
| {MENUBRANCH MEMO}            | {MENUBRAN                        | {MENUBRAN        | {GOBACK} {\   |              |

Left  
Move one cell to the left  
{left1}  
{menubrandh func}

NPrevious Calculate View\_descripti  
NPrevious page Calculate the fiView the descr  
{pgup}~ {ESC 5}{WIN{ESC 5}{wind  
{menubrandh f{if flag6=1}{b;{if @upper(@l  
{err1}{window{windowsoff}{  
{if @upper(@left(@CELLPO  
spreadsheetc:\win\kital87.wk1  
~{BRANCH POINT1B}  
{edit}{home}{del}~/cg1~g4~  
{let out,\$G\$4}~/re\$g\$4..\$g\$4  
{edit}{home}'~{LEFT 5}{wi  
{menubrandh func}

Delete\_edit\_unit

Help

Delete an existing unit and shift the otlOn line help

{INDICATE} {let flag11,2}~{ESC 5} {ESC 5} {err1} {mark} {windowsoff} {goto}hej  
{menubranh unit1} {goto}iu1~ {goback} {WINDOWSON} {menubranh unit1

Left

Move one cell to the left

{left1}  
{menubranh unit2}

NPrevious

Assign\_unit Convert

NPrevious page Assign units toConvert to the  
{pgup}~ {ESC 5} {err1} {ESC 5} {err1}  
{menubranh u} {menubranh u} {LET OUT3,O  
{menubranh u

Norm\_dist                                    DGraph\_save    Help  
Normal distribution                         S:Save graph as :On line help  
{ESC 5} {if flag5=0#AND#@SUM(F,{ESC 5} {err1}{ESC 5} {err1} {mark} {windo  
{err1} {esc 3} {getnumber "input the n,{WINDOWSON}{goback} {WINDOWSON} {r  
{goto} warn1~{windowson} {windows}{ITEST1  
{menuBRANCH stat}                         ~rq{esc 3}  
    {WINDOWSON} {menubbranch stat}

#DIV/0!##

Import                                        CFunc\_edit    Help  
Import data file (list of numbers)        CEdit statistic fuOn line help  
{ESC 5} {ERR1} {let flag5,1} {getlabe{l{ESC 5} {WIN{ESC 5} {err1} {mark} {windo  
/refa1..fc8192~{goto} fa1~{esc 3}/fin{l{menubbranch s{goback} {windowson} {menu  
ISRA6  
~{menubbranch stat1}

Override\_edit\_func                         DHelp  
Override an existing function             DOn line help  
{INDICATE} {let flag11,1}~{ESC 5} {l{ESC 5} {err1} {mark} {windowsoff} {GOTO  
{menubbranch editstat} {goto} iu1~    {l{goback} {windowson} {menubbranch editstat}

elp  
n line help  
ESC 5} {err1} {mark} {windowsoff} {GOTO} HEP5~/REIV1..IV8192~/FIT {ESC 2} H  
goback} {windowson} {menubbranch integral1}

Graph                                        Help  
Show graph before and after integratioOn line help  
{ESC 5} {err1} {menucall graf}            {esc 5} {err1} {mark} {IF FLAG9=1} {window:  
{esc 3} {MENUbranch integral}            {err1} {IF FLAG9=2} {windowsoff} {GOTO} H  
et ex1,"+(ev2+ev1)\*(ew2-ew1)/2+((E {goback} {windowson} {menubbranch integral}  
goto} ex1~{edit} {home} {del}~{goto} ey1~{edit} {home} {del}~  
f dummy=1}~{bbb}  
f dummy=2}~{bab}

MENUbranch integral}

elp

n line help

ESC 5} {err1} {mark} {windowsoff} {GOTO}HEP6~/REIV1..IV3000~/FIT{ESC 2}H  
goback} {windowson} {menubranh diff}

Graph

Help

Show graph before and after differentiOn line help

{ESC 5} {menucall graf} {esc 5} {err1} {mark} {IF FLAG9=1} {window:  
{esc 3} {MENUbranch diff1} {err1} {IF FLAG9=2} {windowsoff} {GOTO}F  
et ex1,"+(ev4-3\*EV3+3\*EV2-ev1)/((ε{goback} {windowson} {menubranh diff1}  
et eY1,"+(ev4-3\*EV3+3\*EV2-ev1)/((ew2-ew1)^3)"~  
goto}ex1~{edit} {home} {del}~  
goto}ey1~{edit} {home} {del}~  
f dummy=1}~{bbb}  
f dummy=2}~{bAb}  
MENUbranch diff1}

dC:\345

```
{LET VAR,@SECOND(@NOW)}~  
{IF (VAR<=DUMMY+3#AND#VAR>=DUMMY)#OR#(VAR+60-DUMMY<=3)}  
{RETURN}
```

|        |         |   |
|--------|---------|---|
| flag3  | oflag6  | 0 |
| flag3a | oflag7  | 0 |
| flag10 | oflag11 | 0 |

!!



0.001 1.2581948

Help

On line help

{err1} {mark} {windowsoff} {GOTO}HEP9~/REIV1..IV3000~/FIT {ESC 2}HELP9~  
{goback} {WINDOWSON} {menubran

Invert

DHelp

Invert a range as a square matrix S:On line help

{indicate WORK} {goto}warn1~{win({err1} {mark} {windowsoff} {GOTO}HEP9~  
{indicate} {menubran impedit} {{goback} {WINDOWSON} {menubran im  
{menubran impedit}

ubran impedit}

elon} {edit} {?}~{windowsoff} {paneloff} {unhiding} {return}

:320~

{windowsoff} {LEFT 10+dur

Clear

MData\_save Help

Clear the worksheet MSaves the matriOn line help

{windowsoff}/rega1..ir320~{WINDO {i{esc 3} {err1} {{err1} {mark} {windowsoff} {  
{menubran impedit1} {i{ddata} {goback} {WINDOWSON} {r  
{i{WINDOWSON} {menubran impedit1}

ubranch impedit1}

{indicate} {menubrand impedit1}

Clear

SData\_save Help

Clear the worksheet

SSaves the matrix On line help

{windowsoff}/regal..ir320~{WINDO {i{esc 3} {err1} {{err1} {mark} {windowsoff} {(

{menubrand impedit2}

{{ddata} {goback} {WINDOWSON} {r

/d{WINDOWSON} {menubrand impedit2}

ubranch impedit2}

{indicate} {menubrand impedit2}

unit,"None"}~{let out3,0}~{let out2,0}~{LET OUT,0}~{branch nnn}

1

(("TYPE",L1..L1)="L"}/WEY



esc}

[ESC] - Previous menu

RG7

O}

DUMMY,OUT&POINT1Z} {LET OUT,0}~{SAVE2} {branch point1v}

branch view1}

}~{LET POINT1R,@CELLPOINTER("ADDRESS")} {GOTO}IT1~



ncy Distribution~SS

) / RG3 } ~ { CALC }

al Distribution~SS

WSOFF}  
DOWN}~{UP}~{RIGHT 5}/M.{END} {DOWN}~{UP}~{LEFT 10}~{UP} {WINDOW\$

Y  
}~{windowsoff} {paneloff} {INDICATE} {BRANCH nnn}

int8p}

Main}

NCH MENU1}

[ESC] - Previous menu

on  
ption

[ESC] - Previous menu

.

,

~

ndowson}

p3~/reiv1..iv8192~/fit{esc 2}help3~{GOTO}HEP2C~{windowson} {menubranh helpp}  
l}

mit2}

nenuBRANCH stat}

branch stat1}

} HEP4~/REIV1..IV8192~/FIT {ESC 2} HELP4~{goto} hep4A~{WINDOWSON} {menuc  
}

ELP5~{goto} hep5A~{WINDOWSON} {menucall helpp}

s0ff} {GOTO} HEP5~/REIV1..IV3000~/FIT {ESC 2} HELP5~{goto} hep5B~{WINDOWS  
HEP5~/REIV1..IV3000~/FIT {ESC 2} HELP5~{goto} hep5C~{WINDOWSON} {menucall

ELP6~{goto}hep6~{WINDOWSON} {menucall helpp}

s0ff} {GOTO}HEP6~/REIV1..IV3000~/FIT {ESC 2}HELP6~{goto}hep6a~{WINDOWSON}  
HEP6~/REIV1..IV3000~/FIT {ESC 2}HELP6~{goto}hep6B~{WINDOWSON} {menucall



{BRANCH TIM}

{GOTO}HEP9~{WINDOWSON} {menucall help}

/REIV1..IV3000~/FIT {ESC 2}HELP9~{GOTO}HEP9A~{WINDOWSON} {menucall helpedit}

my4} {right dummy4} {windowson} {menubranchedit2}

GOTO}HEP9~/REIV1..IV3000~/FIT {ESC 2}HELP9~{GOTO}HEP9B~{WINDOWSON  
nubranchedit1}

GOTO}HEP9~/REIV1..IV3000~/FIT {ESC 2}HELP9~{GOTO}HEP9C~{WINDOWSON  
nenubbranch impedit2}

SON} {WINDOWSOFF}

all helpp}

ON} {menucall helpp}  
helpp}

DN} {menucall helpp}  
helpp}

!pp}

!} {menucall helpp}

⌋ {menucall helpp}



Scientific and Engineering Tool for Lotus 1-2-3

Version 1.2

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Developed and Written by Israel Kehaty

Using this program the user can do:

-----

- Simple arithmetic
- Functions editing and calculation
- Physical units definition and conversion
- Integration and Differentiation of functions/tables
- Editing and calculating statistic functions
- Frequency and normal distribution
- Curve fitting (4 types)
- Root finding (including non-linear equations)
- Matrix operations
- Simultaneous linear equations

## THIS IS AN EXAMPLE OF A DESCRIPTION DUC

This function calculates the cc  
in Lotus as @COS(). If you ar  
any good college book will he

## UMENT

sine of an angle. The cosine is written  
e not familiar with trigonometric functions  
lp.

# Normal Distribution



