

curv

curmenu

flag1

bAe

datab

power1

## Sheet1

```
{ESC 5}{err1}{windowsoff}{goto}output4~/re{right 7}{down 6}~{let dummya,"{right "}"~
{if dummy5=0}{getlabel "Polynom order (8 max) - ",dummy1a}~
{if dummy5=1}{getlabel "Number of powers (Number of columns LESS ONE!, 8 max) - ",dummy1a}~
{if dummy5=3}{let dummy1a,"1"}~
{if dummy5=2}{getlabel "Number of independent variables (Number of columns LESS ONE!, 8 max) - ",dummy1a}~
{if dummy1a=""}{return}
{if @value(dummy1a)>8}{let dummy1a,"1"}~
{let dummy1a,@string(@value(dummy1a)-1,0)}~{let dummya,dummya&dummy1a&""}{if @value(dummy1a)>7}{branch curv}
{goto}warn1~{windowson}{windowsoff}{if @value(dummy1a)<0}{branch curv}
{if dummy5=0}{GOTO}FG3~{END}{DOWN}/C~{RIGHT}~{goto}fH3~/c{RIGHT 7}~.{end}{down}~{branch dummy1b}
{if dummy5=1#or#dummy5=2#OR#DUMMY5=3}{GOTO}Ff3~/c{RIGHT 9}~.{end}{down}~
{esc 5}{goto}fg3~/drxx.
{right 1}
{end}{down}~
y{left}.
{end}{down}~
ooutput1~icg{esc 3}{goto}output1~
{goto}output4~/c{right 7}~{down 3}~
{goto}output5~/c{right 7}~{down 4}{left 2}~{left 2}/re{right 9}~{down 3}{right 2}/re{right 7}~{down}{right 2}/m.{right 3}~{left 4}{do
{goto}output3~/c{right 7}~{down 2}{left 2}~{left 2}/re{right 7}~{down 2}{right 2}/m.{right 3}~{left 4}{down}~{esc 3}{windowson}{CALC}
```

### Import

```
Import a data file (list of numbers) [ESC] - Previous menu
{ESC 5}{ERR1}{goto}ga3~{windowson}{windowsoff}{let flag1,1}{let dummy5,7}~{getlabel "Input the file name - ",point1m}{IF P
{GOTO}ga3~/reEV3..iR8192~{esc 3}/fin{esc}{esc}
isra3
~{windowson}{windowsoff}{menubrand curmenu}
```

```
{ESC 5}{err1}{WINDOWSOFF}{let point1L,@string((@COUNT(FF3..FF8192)+2),0)}~
/cpoint1L~point5L~/cpoint1L~point6L~/CPOINT1L~POINT7L~
102
{let skippp,@string(@COUNT(FF3..FF8192)/4,0)}~/CSKIPP~POINT8L~{ESC 3}/GRGOSS
25
~{ESC 5}/gTxxfG3..fG
102
~AfF3..fF
102
~BfO3..fO
102
~OFASBLQQQ{ESC 3}{IF DUMMY5=2}/GOfMulti-linear regression curve-fit~tXX1~TYY~LADData~LBFitted curve~Qv{esc 3}/
{IF DUMMY5=0}/GOfPolynomial regression curve-fit~tXX~TYY~LADData~LBFitted curve~Qv{esc 3}/re~{windowson}{return}
{IF DUMMY5=1}/GOfLog/power regression curve-fit~tXLN (X1)~TYLN (Y)~LADData~LBFitted curve~Qv{esc 3}/re~{windowson}
{IF DUMMY5=3}/GOfExponential regression curve-fit~tXX~TYLN (Y)~LADData~LBFitted curve~Qv{esc 3}/re~{windowson}{ret
```

```
{ESC 5}{windowsoff}{err1}/cpoint1L~point9L~/cpoint1L~point10L~{esc 3}/rncrat1~
```

## Sheet1

```
fF1..fX
12
~
/rncrrat1~
fF1..fX
12
~
/pf{esc}{esc}
XXXX
~rrrat1
~oML0~MR240~ouqgq{ESC 3}{return}
```

```
{ESC 5}{ERR1}{windowsoff}{goto}ga3~{end}{right}{calc}{let point6m,@string(190-@cellpointer("col"),0)}~{if 191-@cellpointer(
{if dummy5=1#or#dummy5=3}{let point7m,"{right "}{let point8m,""}~{let point6m,point7m&point6m&point8m}~~{right}1~
{if dummy5=1#or#dummy5=3}{left}{end}{down}{right}1~
{if dummy5=2}{let point7m,"{right "}{let point8m,""}~{let point6m,point7m&point6m&point8m}~~{right}0~
{if dummy5=2}{left}{end}{down}{right}0~
{left}{end}{up}{right}/c~.{end}{down}~/c{end}{down}~.
-1
~{return}
```

Poly.

Polynomial regression curvefit (order 1 to 8) of ONE variable function

{ESC 5}{err1}{IF FLAG1=0}{windowson}{GOTO}WARN~{windowsoff}{BRANCH POINT4M}

/reff1..fx8192~{goto}ga3~c{right}{end}{down}~ff3~{goto}iu1~{windowson}{windowsoff}{goto}ff1~/fcce{esc 2}curfit1B~{calc}{es  
{menubbranch curmenu}

flag2

{right  
{right

Log/power

Regression curvefit of product of powers (8 max) [ESC] - previous menu

{ESC 5}{ERR1}{if dummy5<>1#and#dummy5<7}{let flag1,0}{let dummy5,1}~

{err1}{IF FLAG1=0}{windowson}{GOTO}WARN~{windowsoff}{BRANCH POINT5M}

/reff1..fx8192~{goto}ga3~/c{right}{end}{down}~ff3~{let dummy5,1}~{power1}{goto}iu1~{windowson}{windowsoff}{goto}ff1~/fccc

{menubbranch curmenu}

}



Exp.

Exponential regression curve fitting of ONE variable function

{ESC 5}{err1}{IF FLAG1=0}{windowson}{GOTO}WARN~{windowsoff}{BRANCH POINT2n}

/reff1..fx8192~{goto}ga3~/c{right}{end}{down}~ff3~{let dummy5,3}~{power1}{goto}iu1~{windowson}{windowsoff}{goto}ff1~/fccc

{menubbranch curmenu}



#### Multi\_linear

Linear regression of multi (8 max) variable function [ESC] - Previous menu

```
{ESC 5}{if dummy5<>2#and#dummy5<7}{let flag1,0}{let dummy5,2}~  
{err1}{IF FLAG1=0}{windowson}{GOTO}WARN~{windowsoff}{BRANCH POINT1n}  
/reff1..fx8192~{goto}ga3~/c{right}{end}{down}~ff3~{let dummy5,2}~{power1}{goto}iu1~{windowson}{windowsoff}{goto}ff1~/fccc  
{menubbranch curmenu}
```

## Sheet1

If you want to keep this default directory press ESC or ENTER

Data\_save

Saves the data tables for creating the graph [ESC] - Previous menu

{esc 5}{err1}{getlabel "input the file name - ",point11L}~{dataB}

{menubbranch curmenu}

Graph\_save

Save graph as a .PIC file

```
{ESC 5}{err1}{GETLABEL "Input file name - ",point6n}~{if point6n=""}{branch point7p}  
/GS{esc}
```

```
~rq{ESC 5}{menubbranch curmenu}
```

Help

On line help

{ESC 5}{err1}{mark}{windowsoff}{GOTO}HEP7~/REIV1..IV3000~/FIT{ESC 2}HELP7~{goto}hep7~{WINDOWSON}{menucall h

{goback}{windowson}{menubbranch curmenu}

