

(SLK) STRAIGHT LINE KIT V1.0

Program Name: **STRAIGHT LINE KIT V1.0 (SLK)**.

Release Date: Dic-2013.

Previous Version: **STRAIGHT LINE KIT**.

Current Version: **STRAIGHT LINE KIT V1.0**

Supported Platforms: **Only HP50G & HP49G+**

Tested on ROMS: HP50G(ROM 2.15) , & HP49G+(ROM 2.09)

Type: **Library**.

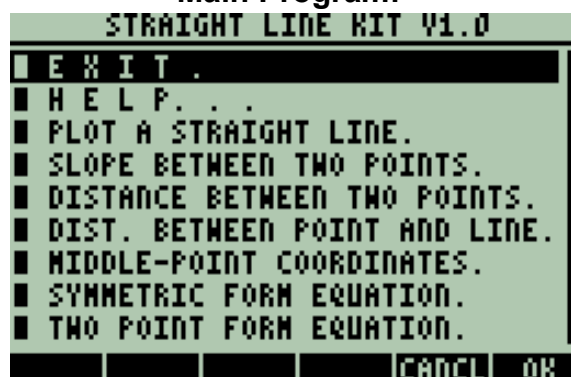
Library ID number: **1112**

Size on the calculator: **77429 Kb**.

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Main Program:



What is (SLK) STRAIGHT LINE KIT V1.0 ?

SLK is a 95% User-RPL program specially focused on the straight line matters, it'll help you to find:

- The graph of a Straight Line.
- The Slope between two points.
- The Distance between two points.
- Middle-point coordinates.
- The perpendicular distance between a point and a straight line.
- The "point-slope" equation.
- The equation of a straight line between two points.
- A coordinate generator.
- Parallel lines.
- Perpendicular lines.
- The (x) & (y) intercepts of a straight line.
- Symmetric Form equation.
- The Intersection point of a system of 2 linear equations.
- The conversion between standard & slope-intercept forms equations.
- A help Section, where you'll find help for each particular case.

How does it work?

SLK basically checks the User input, then it looks for the best solution possible, in case there is no solution, **SLK** will provide a short explanation about it.

It's pretty much self explanatory, just follow these 3 steps:

- 1).- Select what you need to find.
- 2).- Enter your data using correct syntax. (If you need more information... just go to the help section, right on the main menu.)
- 3).- Get the result!

Is it really that easy?

YES. it is!

In order to avoid calculation errors while working with **SLK**, you may want to consider the following:
When entering: **Equations** or **Slopes** you can use decimals, integers or fractions.

Examples:

Equations: 'Y=3/4*X+6' ... 'Y=X+3/7' or 'Y=2.3*X+3.5647'

Slopes: ' 3/4 ' ... ' 9/7 ' or 2.365478

So... don't forget to open simple quotation marks ' ' when entering equations or fractions.

To Enter coordinates... you must enter these in “complex format”, using only use integers or decimal numbers, fractions are **not** allowed!

Examples:

(23 , 3.1416) or (3 5.), notice that spaces are also valid to separate coordinates from each other.

I guess this is it! I apologize for my bad English, it is not my mother language, I hope this program will be useful to everyone who needs to know about the straight line.

All Bugs, reports & comments are welcome! Please, feel free to E-Mail me.

Enjoy!

Special Greetings to:

- **Eric Rechlin** for maintaining <http://www.hpcalc.org> the best Hp calculator's program archive.
- **Cesar Vasquez Alvarado** for giving up his code to improve **SLK's** User Interface.
Here's his website: <https://sites.google.com/site/cesarv1821/home>