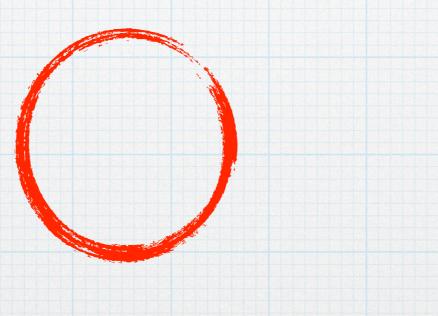
Introduction to II-8x Calculators Calculators

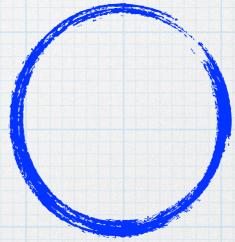
Programming in TI-Basic

Presented by: Je'aime H. Powell jeaime.powell@cerser.ecsu.edu

Review

Slope-Intercept Form of a straight line





Slope y-Intercept

Review Problem Example

Graph a line with the slope of 4/3 and a y-intercept of -4.

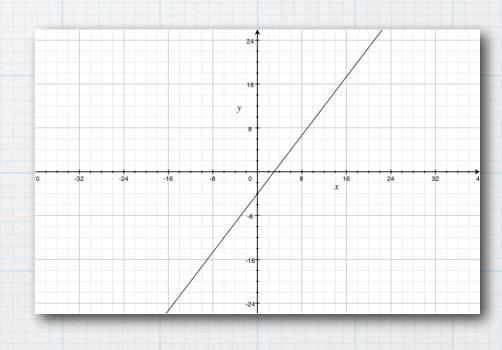
Step 1:

y=(4/3)x+(-4)

Step 2:

X	Y
-2	-6.67
-1	-5.33
0	-4
1	-2.67
2	-1.33

Step 3:



Program Objective

Create a program that inputs a slope and y-intercept, and then outputs a table of coordinates and graphs the line of the function on a TI-8x calculator.

Intercept

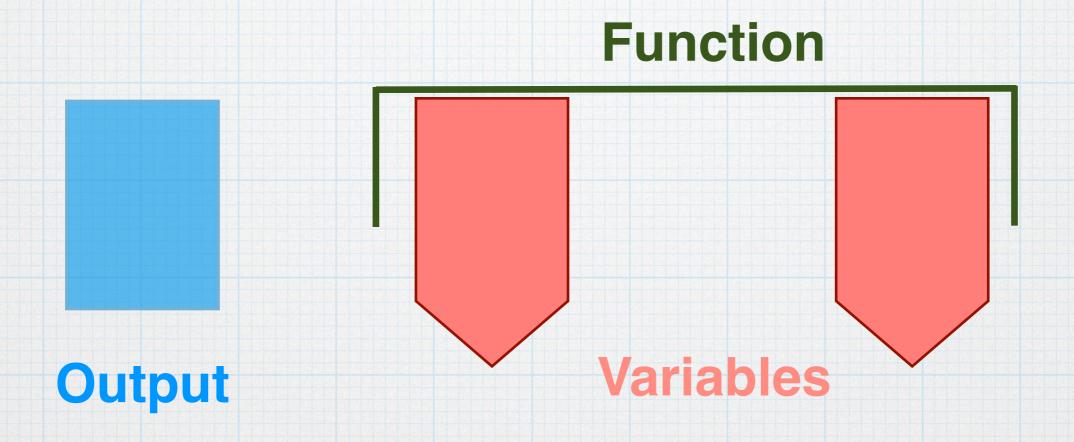
Industry

Intercept

Function B Wx+B

ਰੂ Graph Table

Program Components



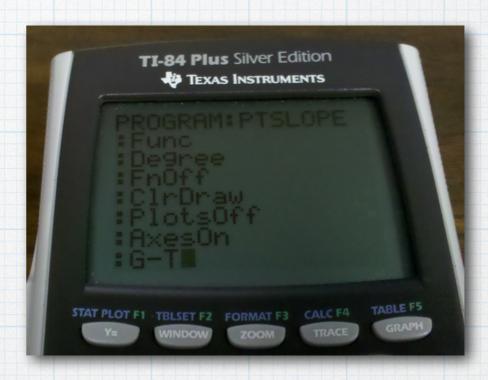
Creating the new program file

- * Press [PGRM]
 - * Select "NEW"
 - * Select "Create New"
 - * Enter PTSLOPE



Initial Settings

- * Func
- * Degree
- * G-T
- * FnOff
- * PlotsOff
- * ClrDraw
- * AxesOn



These may be found in: [MODE] {STAT PLOT} {DRAW} {FORMAT} {CATALOG}

Pisplay the program tunction

* DISP "Y=MX+B"



- ▶ [PGRM]
 - ▶ "I/O"
 - ▶ Disp

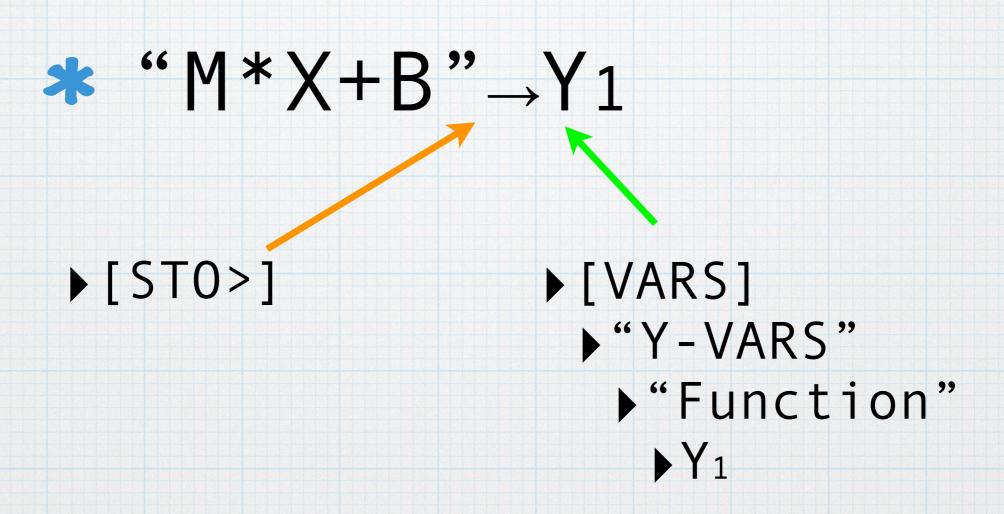
Input the Variables

- * Input "M=?", M
- * Input "B=?", B



- ▶ [PGRM]
 - "I/O"
 - ▶ Input

Set the function



Output the Graph

* DispGraph



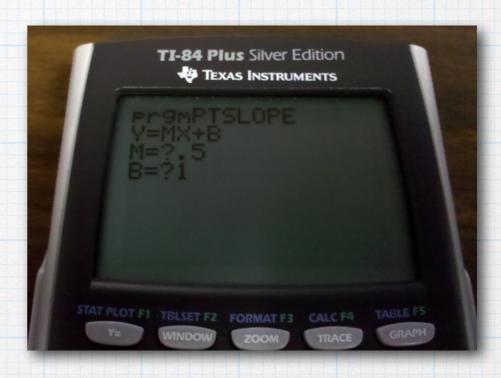
- ▶ [PGRM]
 - ▶"I/0"
 - DispGraph

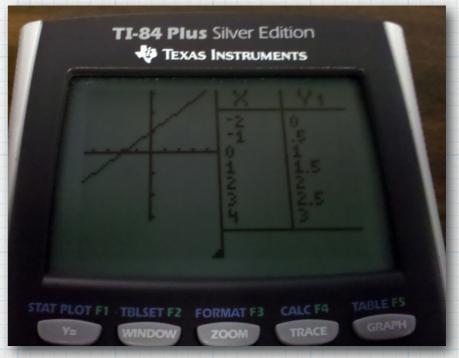
Check Your Code

```
Func
Degree
G-T
FnOff
ClrDraw
PlotsOff
Axes0n
Disp "Y=MX+B"
Input "M=?", M
Input "B=?",B
"M*X+B"\rightarrowY<sub>1</sub>
DispGraph
```

Execute your code

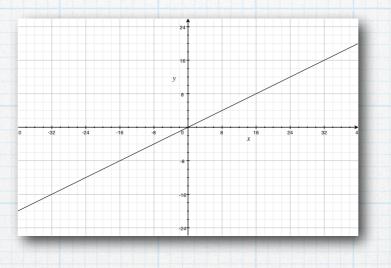
- * [PGRM]
 - * "EXEC"
 - * PTSLOPE
 - * [ENTER]

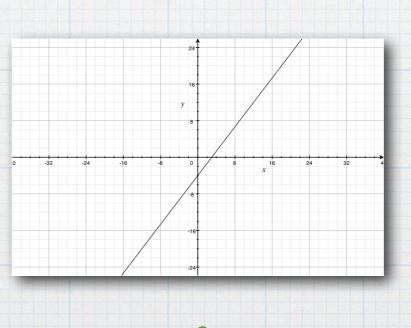


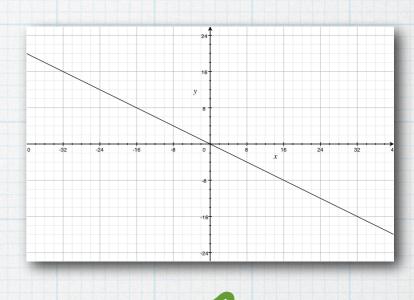


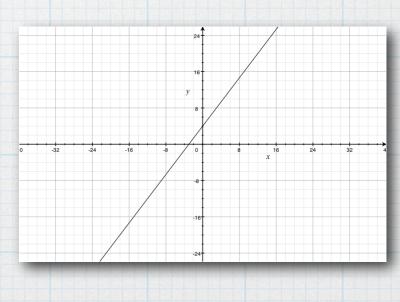
Examples

- 1. Slope = .5 y-Intercept = 0
- 2. Slope = -.5 y-Intercept = 0
- 3. Slope = 4/3 y-Intercept = -4
- 4. Slope = 4/3 y-Intercept = 4





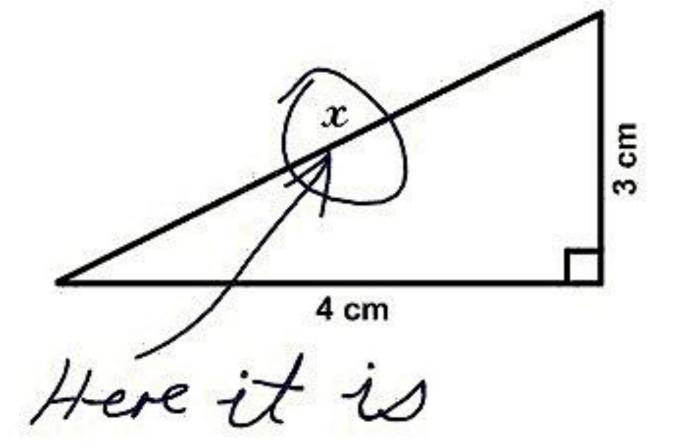




4

Questions?

3. Find x.



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