

GRAPHING ON THE TI-NSPIRE

1. Open a new document. (Choose no when asked to save unsaved document.)

Choose 2: Add Graphs

Hit CTRL - G (or Tab) to open (or close) the equation entry line.

Hit Enter to display the graph.

2. Hit CTRL - T to open (or close) a table of values.

CTRL - 6 will move the table of values to a separate page.

Let's explore with the linear function: $y = x - 5$ ($f(x)$ is the same as y)

1. Enter into calculator.

2. Look at the graph.

3. Look at the table of values.

x-intercept: $x = 5$

* where $y = 0$

y-intercept: $y = -5$

* where $x = 0$

Recall: $f(x) = y$

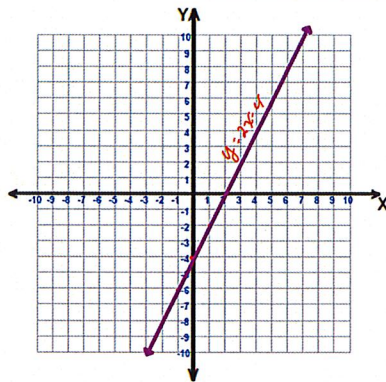
Can use table to find values

$f(2) = y$ find y . $y = -3$

$f(x) = 3$ find x . $x = 8$

1. $y = 2x - 4$

X	Y
-3	-10
-2	-8
-1	-6
0	-4
1	-2
2	0
3	2
4	4
5	6
6	8
7	10



x-intercept: $x = 2$

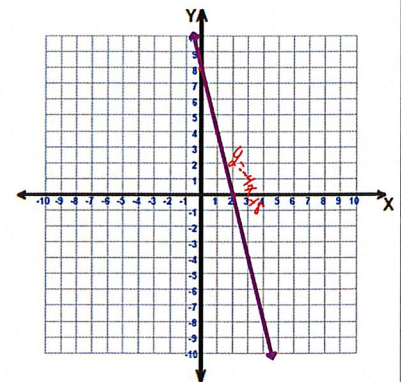
y-intercept: $y = -4$

$f(-2) = y$, find y . $y = -8$

$f(x) = 2$, find x . $x = 3$

2. $y = -4x + 8$

X	Y
0	8
1	4
2	0
3	-4
4	-8



x-intercept: $x = 2$

y-intercept: $y = 8$

$f(x) = 20$, find x . $x = -3$

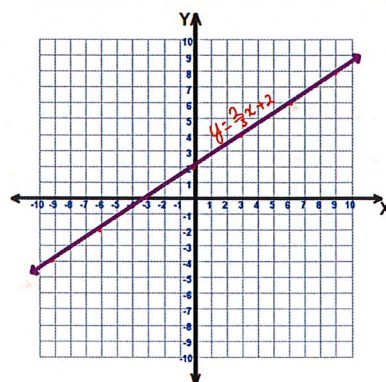
$f(6) = y$, find y . $y = -16$

go back to calc table

3. $y = \frac{2}{3}x + 2$

X	Y
-9	-4
-6	-2
-3	0
0	2
3	4
6	6
9	8

only use integers for table



x-intercept: $x = -3$

y-intercept: $y = 2$

$f(x) = 6$, find x . $x = 6$

$f(3) = y$, find y . $y = 4$

HOMework

Worksheet Calculator Graphing