

Finding Intercepts with the TI-83+

Intercepts are the points where a graph crosses either the x or y axis. So either the x coordinate or the y coordinate will be 0. If you want the x-intercept, y will be zero. If you want the y-intercept, let x equal 0.

Before you begin, clear all previously stored functions

Y=

Highlight function and press **Clear**

Start by setting the viewing window

Zoom

6:ZStandard

Enter an equation.

Y=

$y_1 = 2x + 1$

Graph

To find the y intercept (x=0)

2nd Calc

1:Value

x= key in **0**

Enter

The cursor automatically moves to the y intercept.

Coordinates of the y intercept are shown on the bottom of the screen (0,1)

To find the x-intercept (y=0)

2nd Calc

2:zero

Left Bound?: Use the left or right arrow to move the cursor to the left of the intercept.

Enter

Right Bound?: Use the right arrow to move the cursor to the right of the intercept

Enter

Guess?: Move the cursor close to the x-intercept.

Enter

Coordinates of the x intercept are shown on the bottom of the screen (-.5,0)