

Finding Intercepts with the TI-85

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

Graph
F1: Y=
F4: DelF

Start by setting the viewing window

Graph
F3 Zoom
F4: ZStd

Enter an equation.

F1: Y=
 $y_1 = 2x + 1$
Exit
F5: Graph

To find the y intercept (x=0)

More
F1: Math
More
F4: YICPT

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)

Graph
More
F1: Math
F3: Root
Enter

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