

1.1 Graphs and Graphing Utilities

- Read this review section in your textbook (Section 1.1)

A. Graphs of Equations (Idea)

1. Make a table of (x, y) points by plugging in numbers for x and figuring out y .
2. Plot the points on a grid.
3. Connect the dots.

B. Intercepts

x -intercept: x -value where graph crosses the x -axis

y -intercept: y -value where graph crosses the y -axis

To find:

To find x -intercept(s): set $y = 0$

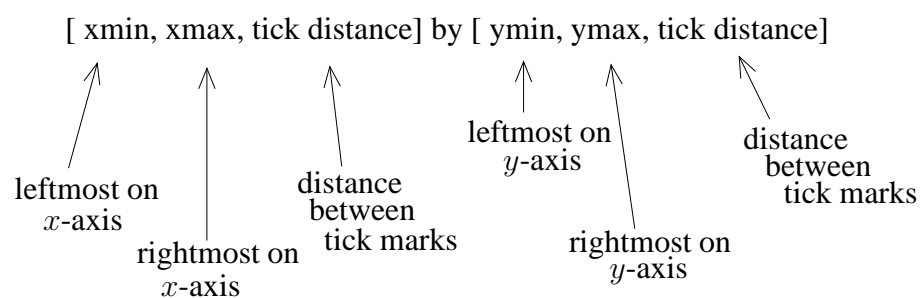
To find y -intercept(s): set $x = 0$

Example: $2x + 3y = 6$

Then $x = 0 \implies 3y = 6 \implies y = 2$ y -intercept

Then $y = 0 \implies 2x = 6 \implies x = 3$ x -intercept

C. Calculator Graphing Window Notation



Example: [-10,5,5] by [-3,4,1]

means:

