

Day 23: Slope and $y=mx + b$

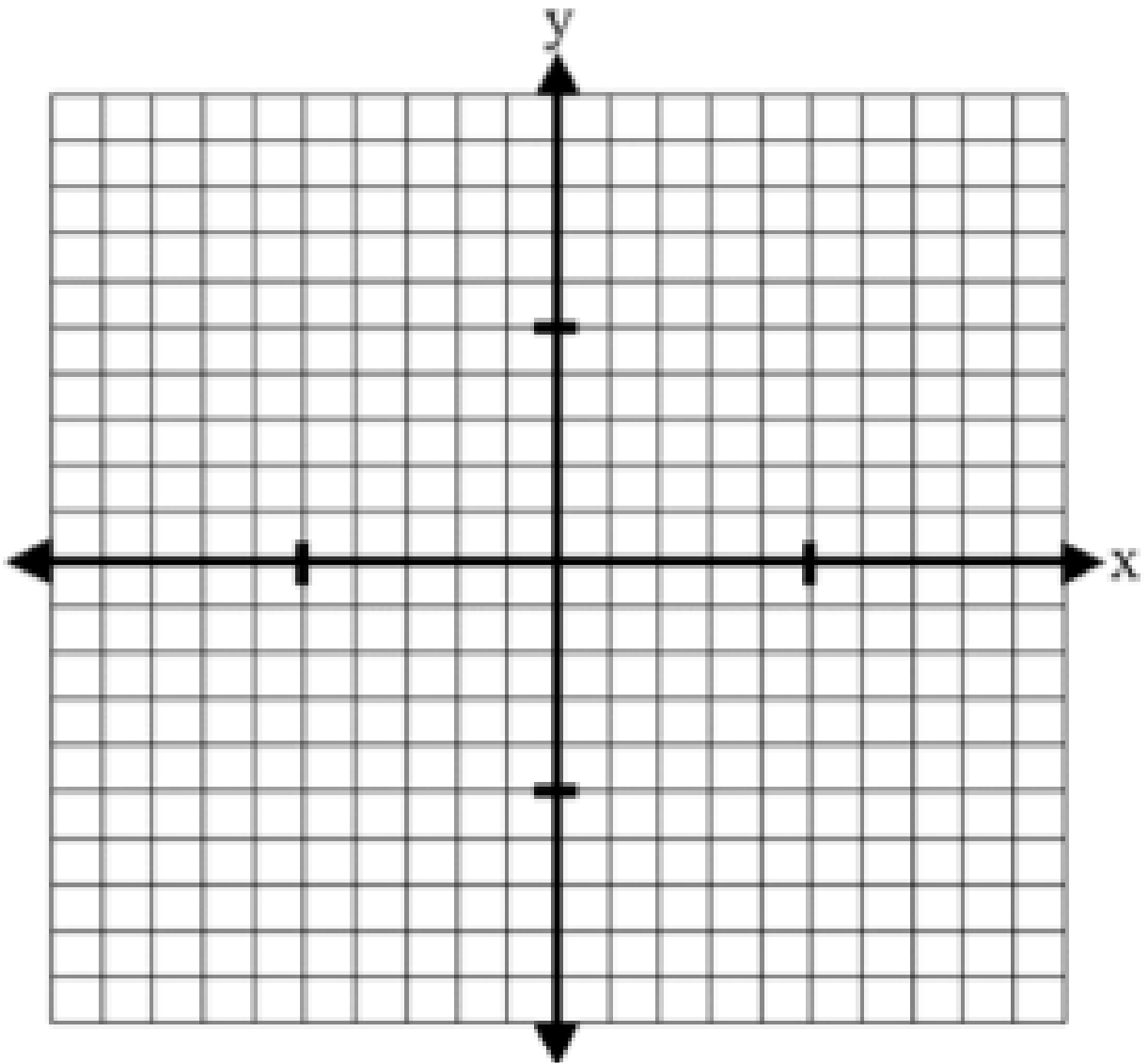
#23

Directions:

- 1) Graph the points in each set below and connect with a line, then...
- 2) Find the slope of each line.

Make the line with the indicated color below. (Use a RULER!)

<u>Red:</u> (1,2) (4,3) (7,4)	<u>Blue:</u> (-6,-3)(-1,2) (4,7)	<u>Green:</u> (0,1) (1,3) (-1, -1)	<u>Pencil:</u> (1,3) (0,0) (-1,-3)
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Slope-Intercept Form

Slope-Intercept Form: _____

m = _____ b = _____

Steps for Graphing Linear Equations in Slope-Intercept Form

1. Plot the _____ .
2. Use _____ to plot more points. On a graph, slope is found by _____ .
3. Connect the points with a _____ .

Examples:

1. $y = \frac{1}{2}x + 3$

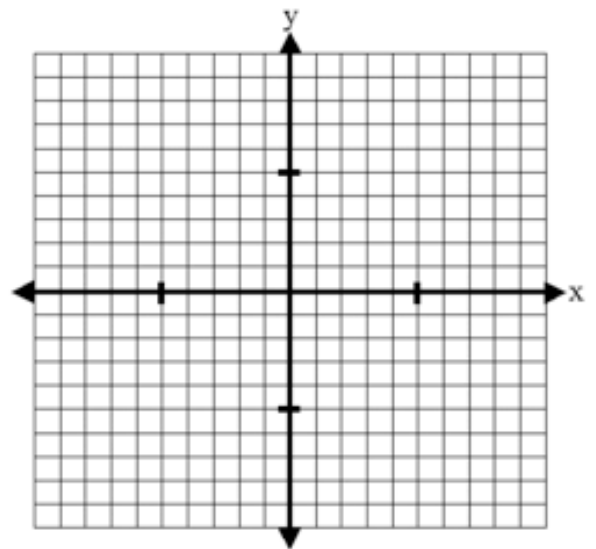
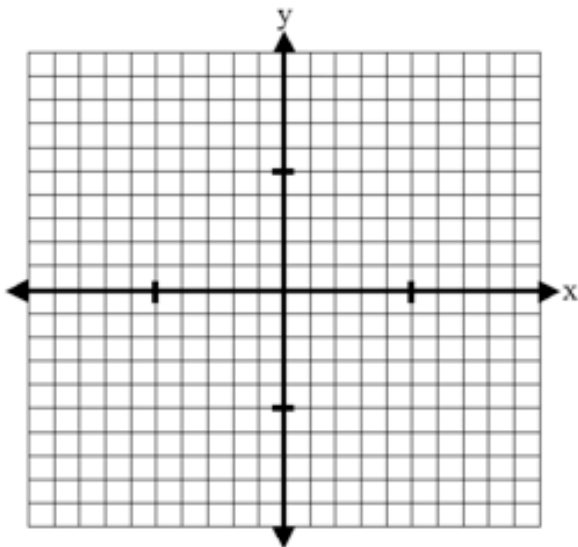
slope (m) = _____

y-int (b) = _____

2. $y = -\frac{3}{4}x + 6$

slope (m) = _____

y-int (b) = _____

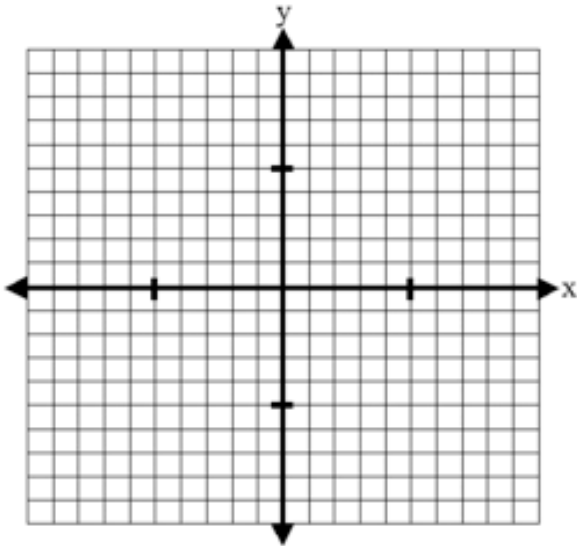


You Try:

3. $y = \frac{2}{3}x - 5$

slope (m) = _____

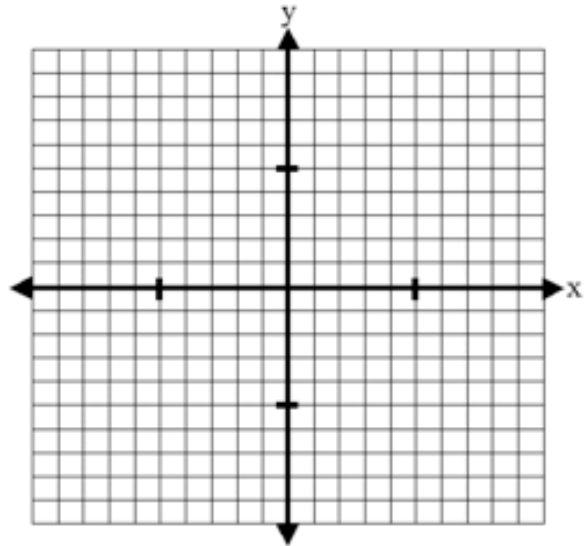
y-int (b) = _____



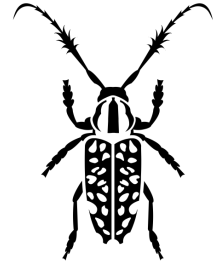
4. $y = -2x + 6$

slope (m) = _____

y-int (b) = _____



What to do when slope is a rational number:



Created by Christine Reynolds
from Noun Project

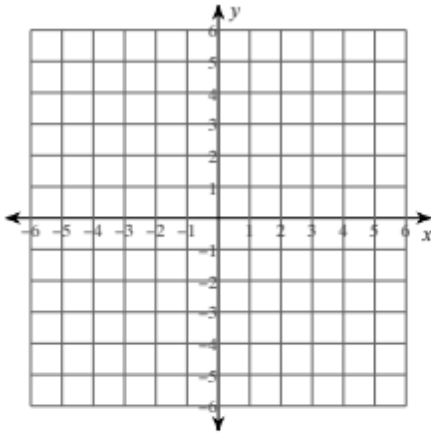
What to do when slope is a whole number:

Practice: Graphing SLOPE-INTERCEPT FORM

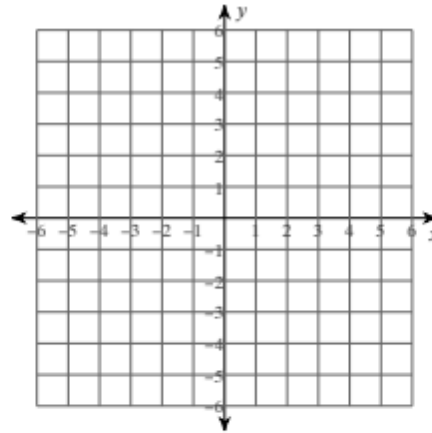
#23b

Graph each line.

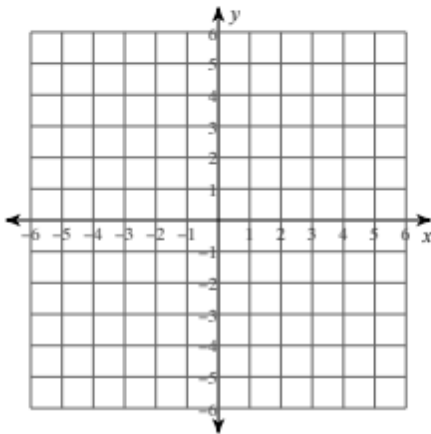
1) $y = \frac{7}{4}x - 3$



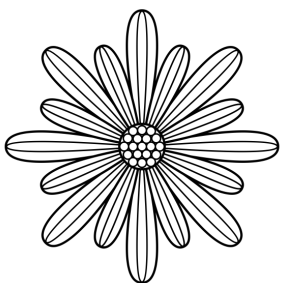
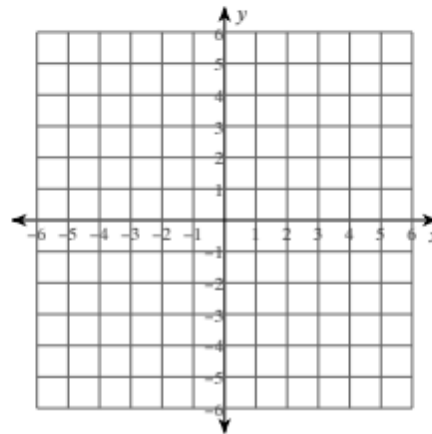
2) $y = -\frac{5}{2}x - 3$



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



4) $y = -\frac{1}{5}x - 1$



eudaimonia

(n.) lit. "human flourishing"; a contented state of being happy and healthy and prosperous

pronunciation | "U-de-'mOn-E-a

