

HW 8.1 Slope Intercept Form

Due Date _____ 5K _____

Convert to $y=mx+b$, then state the slope (m) and y-intercept (b) of each line.

1) $y = -\frac{4}{3}x - 5$

$$m = -\frac{4}{3}$$
$$b = -5$$

2) $y = -\frac{1}{2}x - 2$

$$m = -\frac{1}{2}$$
$$b = -2$$

3) $3x + 2y = 4$

$$m = -\frac{3}{2}$$
$$b = 2$$

4) $5x + 2y = -10$

$$m = -\frac{5}{2}$$
$$b = -5$$

5) $x + 3y = 12$

$$m = -\frac{1}{3}$$
$$b = 4$$

6) $x + y = 0$

$$m = -1$$
$$b = 0$$

7) $-12x - 15y + 15 = 0$

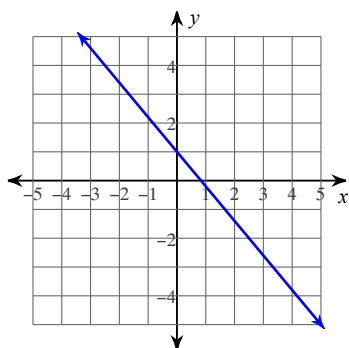
$$m = -\frac{4}{5}$$
$$b = 1$$

8) $-6y - 18 = 9x$

$$m = -\frac{3}{2}$$
$$b = -3$$

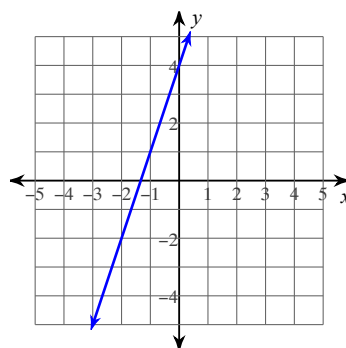
State the slope and y-intercept, then write equation to the line.

9)



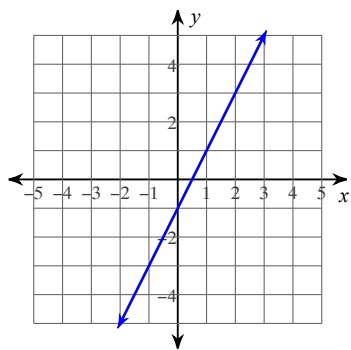
$$y = -\frac{2}{5}x + 1$$

10)



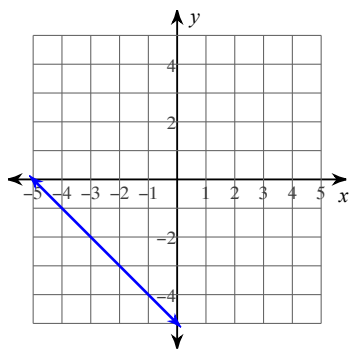
$$y = 3x - 1$$

11)



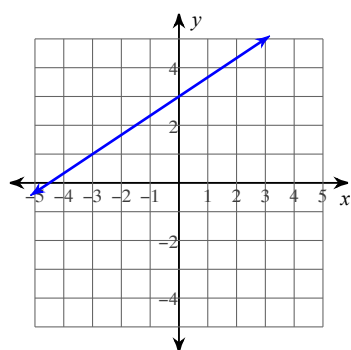
$$y = 2x - 1$$

12)



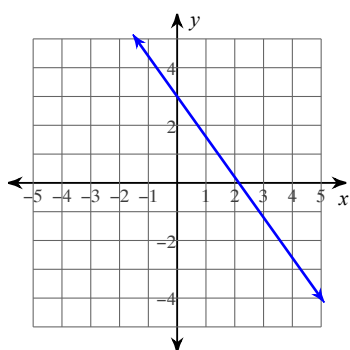
$$y = -x - 5$$

13)



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

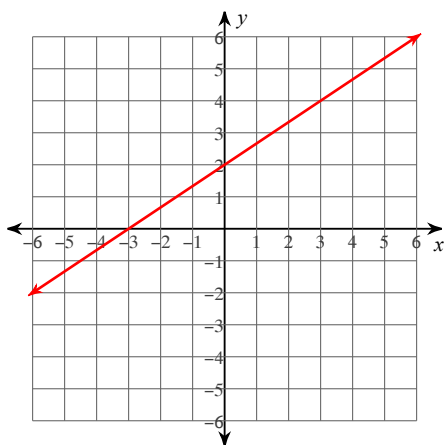
14)



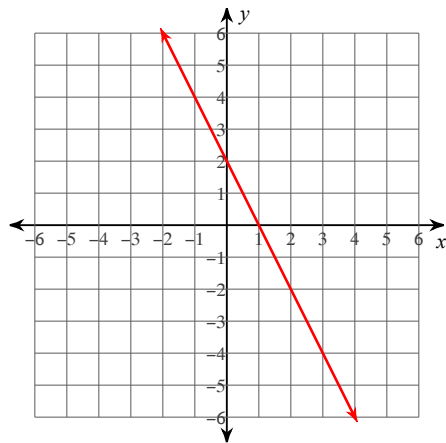
$$y = -\frac{7}{5}x + 3$$

Graph by plotting the y-intercept, then use the Rise/Run from the y-int.

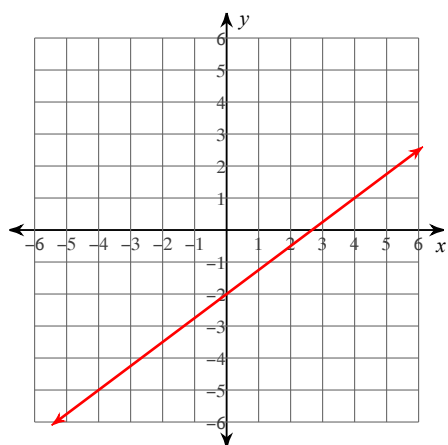
$$15) y = \frac{2}{3}x + 2$$



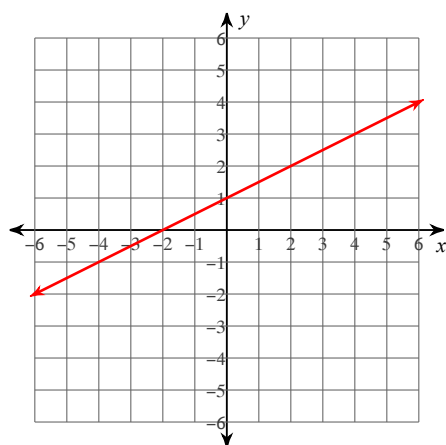
$$16) y = -2x + 2$$



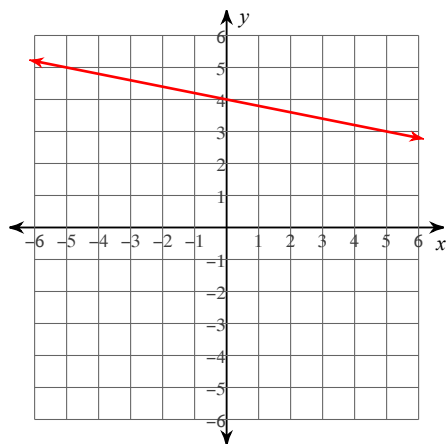
17) $3x - 4y = 8$



18) $x - 2y = -2$



19) $2x = -10y + 40$



20) $-15 - 5y = -8x$

