

Standard Form Practice

Write the standard form of the equation of the line through the given point with the given slope.

1) through: $(3, -5)$, slope = -2

$$2x + y = 1$$

2) through: $(3, -1)$, slope = $-\frac{3}{7}$

$$3x + 7y = 2$$

3) through: $(1, 0)$, slope = 2

$$2x - y = 2$$

4) through: $(-2, 3)$, slope = $\frac{1}{2}$

$$x - 2y = -8$$

5) Slope = $\frac{9}{4}$, y-intercept = 5

$$9x - 4y = -20$$

6) through: $(1, -1)$, slope = $\frac{3}{2}$

$$3x - 2y = 5$$

7) through: $(2, 0)$, slope = $\frac{3}{2}$

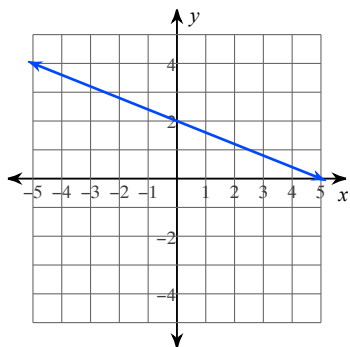
$$3x - 2y = 6$$

8) Slope = -1 , y-intercept = -2

$$x + y = -2$$

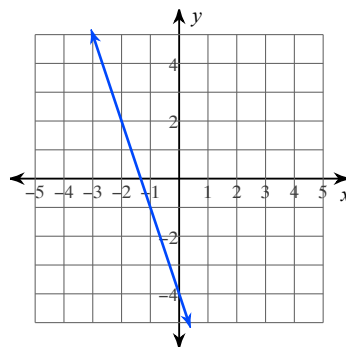
Write the standard form of the equation of each line.

9)



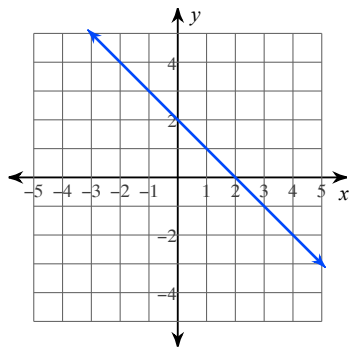
$$2x + 5y = 10$$

10)



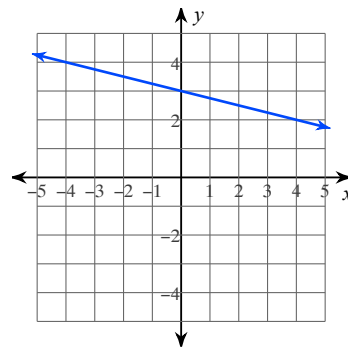
$$3x + y = -4$$

11)



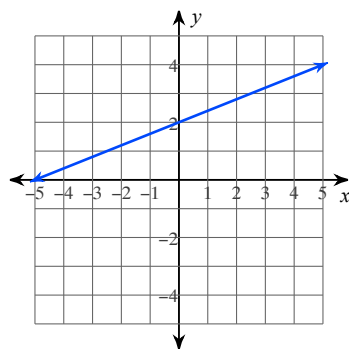
$$x + y = 2$$

12)



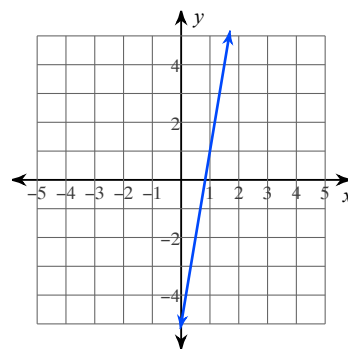
$$x + 4y = 12$$

13)



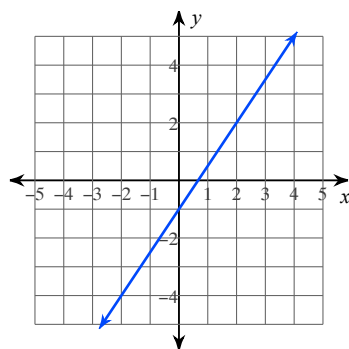
$$2x - 5y = -10$$

14)



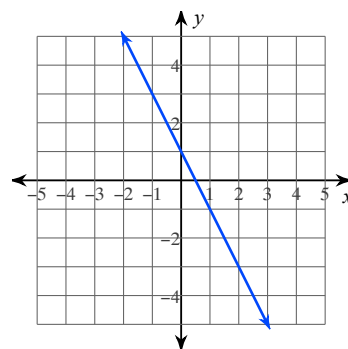
$$6x - y = 5$$

15)



$$3x - 2y = 2$$

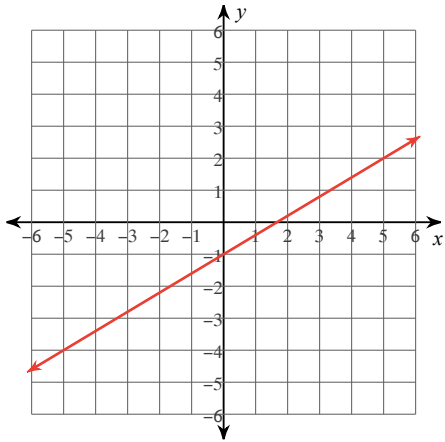
16)



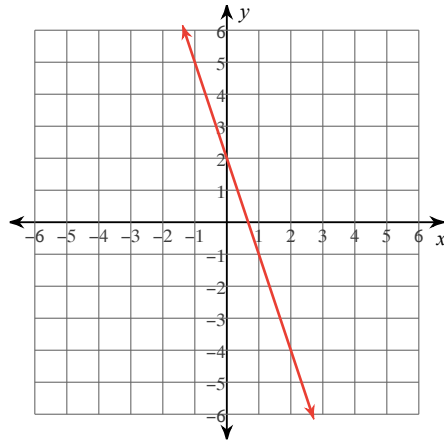
$$2x + y = 1$$

Sketch the graph of each line.

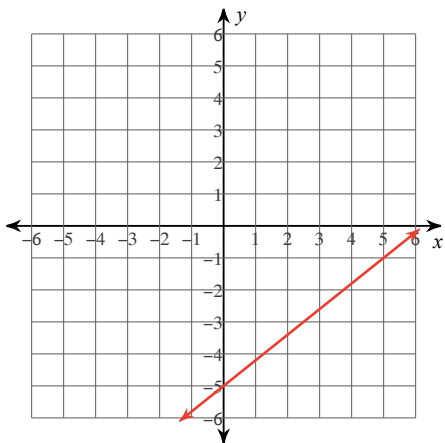
17) $3x - 5y = 5$



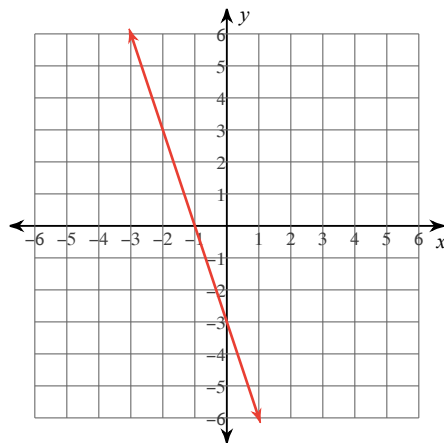
18) $3x + y = 2$



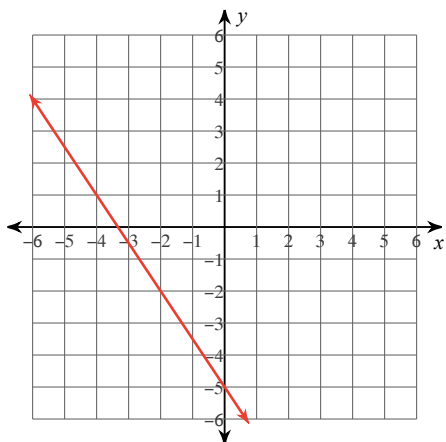
19) $4x - 5y = 25$



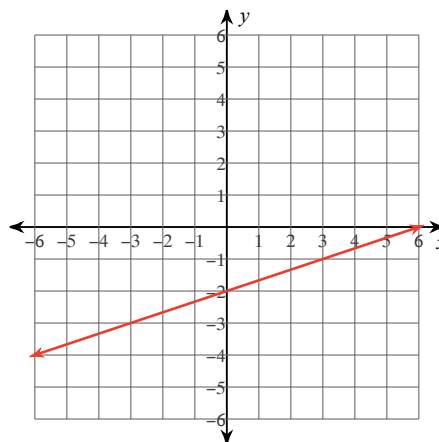
20) $3x + y = -3$



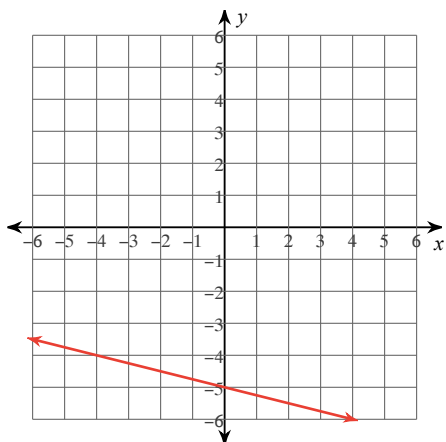
21) $3x + 2y = -10$



22) $x - 3y = 6$



23) $x + 4y = -20$



24) $3x - y = 2$

