Secondary Math I Name_____

Unit 2 Test - REVIEW

Date_____ Period____

Determine if the ordered pair is a solution to the given equation.

1) $y = -x - 1$

a. $(-8, 7)$ _____

b. $(10, 9)$ _____

c. $(-1, 0)$ _____

d. $(1, 0)$ _____

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

a. $(4, 10)$ _____

b. $(10, -11)$ _____

c. $(0, 4)$ _____

d. $(-2, -7)$ _____

3) $y < \frac{1}{3}x + 1$

a. $(-3, -1)$ _____

b. $(6, 3)$ _____

c. $(-6, -4)$ _____

d. $(1, 0)$ _____

4) $y \leq -x + 4$

a. $(-8, 10)$ _____

b. $(-1, 5)$ _____

c. $(1, 0)$ _____

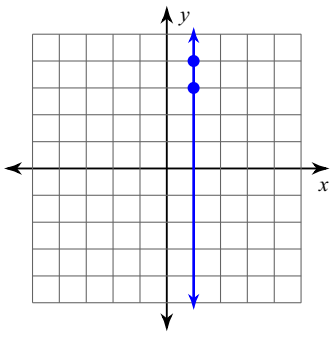
d. $(4, -1)$ _____

Find the slope of each line.

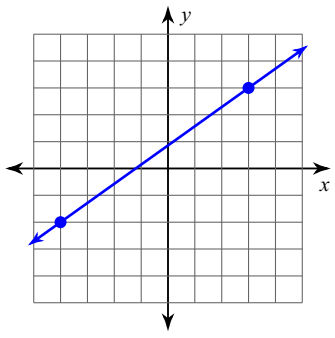
5) $y = \frac{5}{4}x - 4$

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

7)



8)



Find the slope of the line through each pair of points.

9) $(-11, -3), (13, 3)$

10) $(11, 4), (-7, -10)$

11) $(-9, 0), (-9, -20)$

12) $(-14, 18), (-12, -15)$

13) $(5, -12), (-6, -18)$

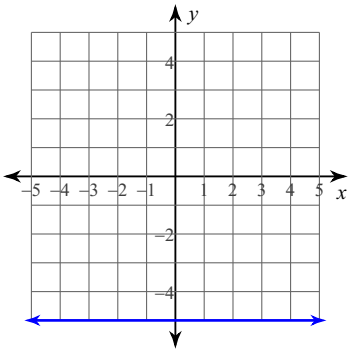
14) $(-8, 3), (16, 3)$

Find the value of x or y so that the line through the points has the given slope.

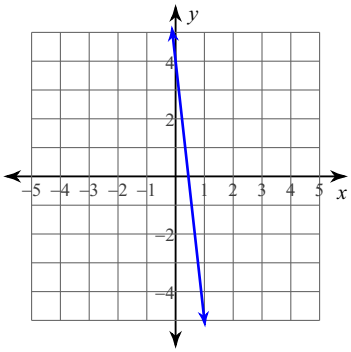
15) $(x, 1)$ and $(4, -3)$; slope: -4

Write the slope-intercept form of the equation of each line.

16)



17)



Write the slope-intercept form of the equation of each line given the slope and y-intercept.

18) Slope = 0, y-intercept = -5

19) Slope = $\frac{1}{2}$, y-intercept = 0

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

20) through: $(-3, 2)$, slope = 0

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

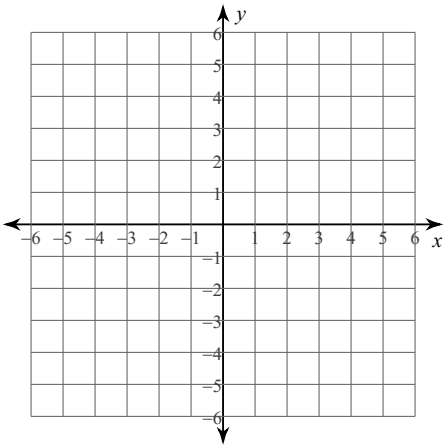
Write the slope-intercept form of the equation of the line through the given points.

22) through: $(0, -5)$ and $(-5, -4)$

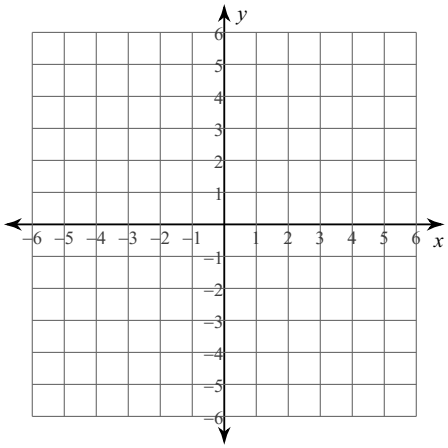
23) through: $(-3, 3)$ and $(3, -3)$

Sketch the graph of each line.

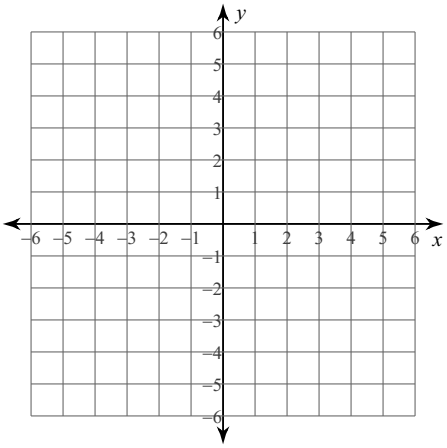
24) $y = \frac{1}{2}x - 2$



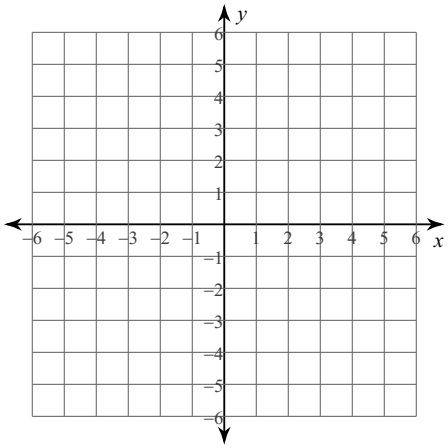
25) $y = -\frac{3}{5}x - 4$



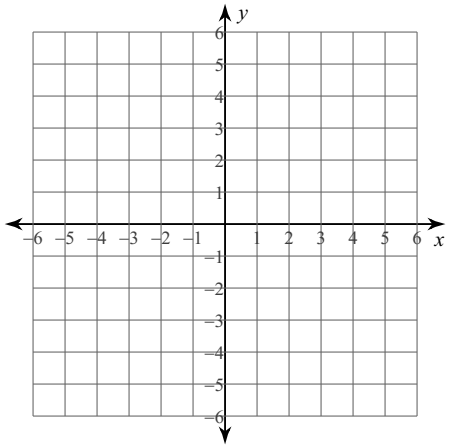
26) $y = -\frac{4}{5}x - 5$



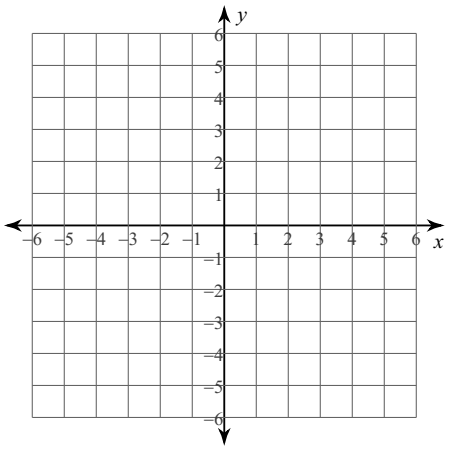
27) $y = -5$



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

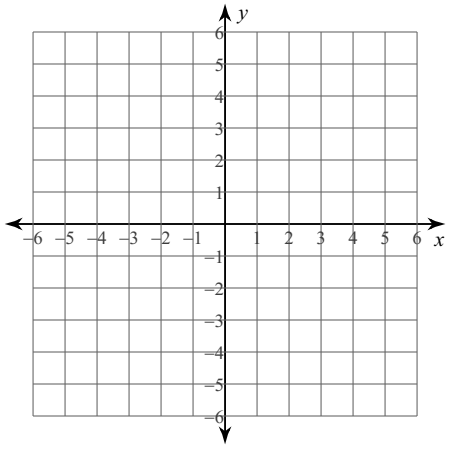


29) $x = 3$

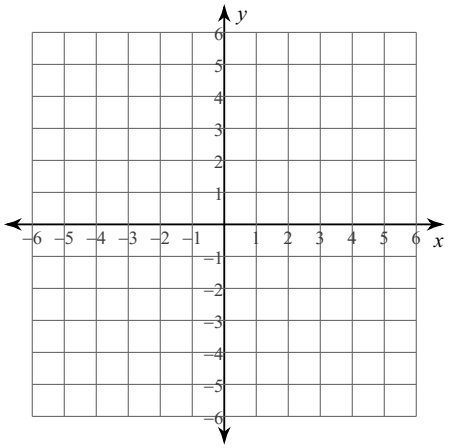


Sketch the graph of each linear inequality.

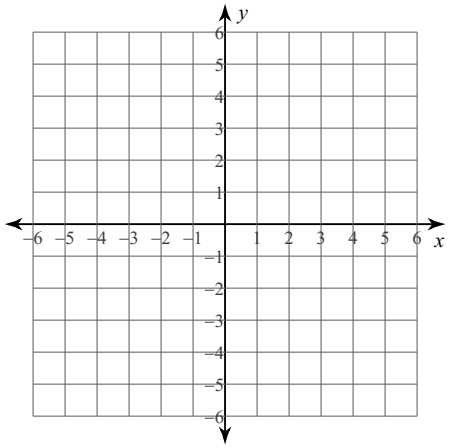
30) $y < \frac{3}{2}x + 1$



31) $y \geq 2x - 4$



32) $y > x - 5$



33) $y > -3x + 2$