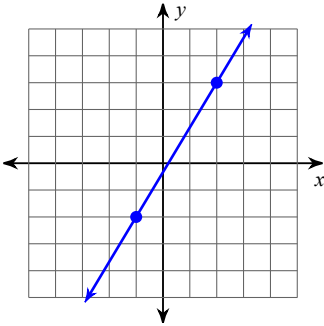


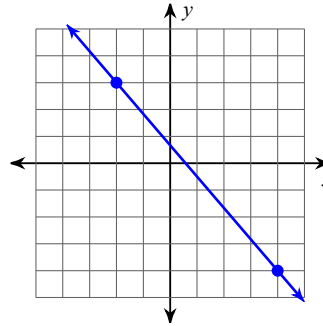
Slope and Lines Packet

Find the slope of each line using the points on the graph.

1)



2)



Find the slope of the line passing through each pair of points. Use the slope formula.

3) $(6, -8), (-6, -11)$

4) $(-8, -5), (13, -14)$

Write the equation in slope-intercept form. Then, identify the slope and y-intercept for the line.

5) $x - 6 = 3y$

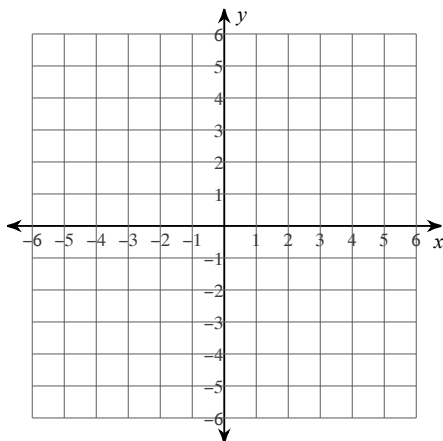
6) $5x = y$

7) $3x = -y - 1$

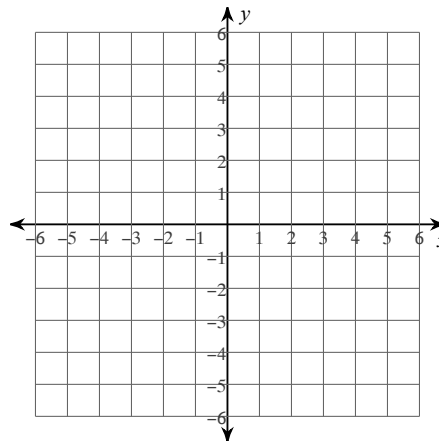
8) $-4x = -y - 3$

Sketch the graph of each line.

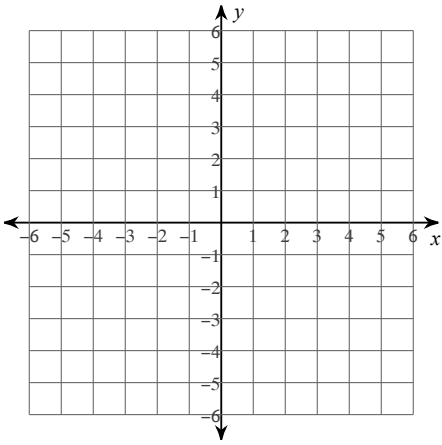
9) $y = -\frac{5}{2}x + 2$



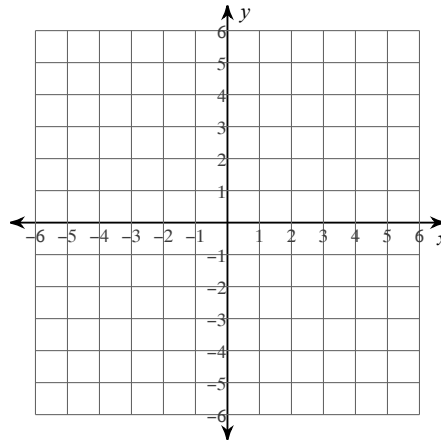
10) $y = 2x - 4$



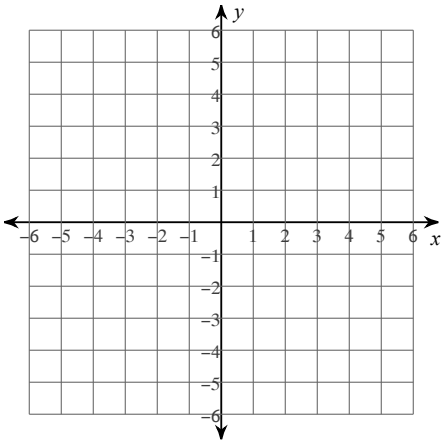
11) $y = -x - 1$



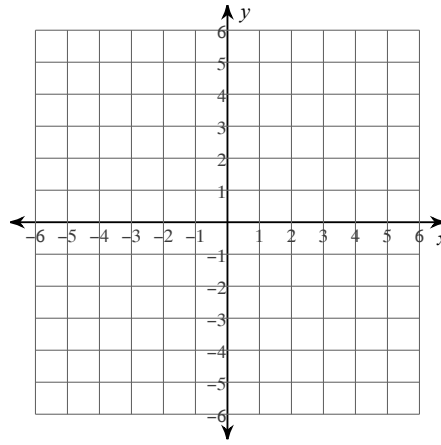
12) $4x - y = -2$



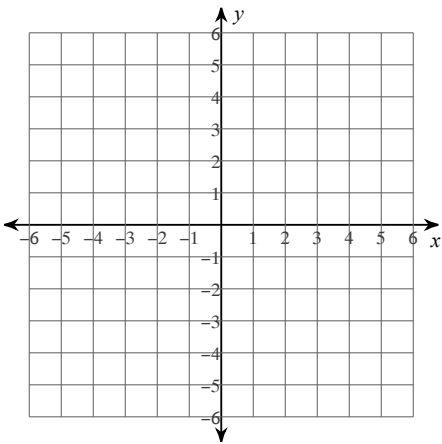
13) $x = -2$



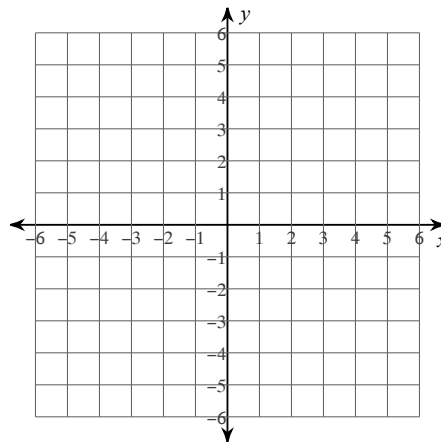
14) $y = 4$



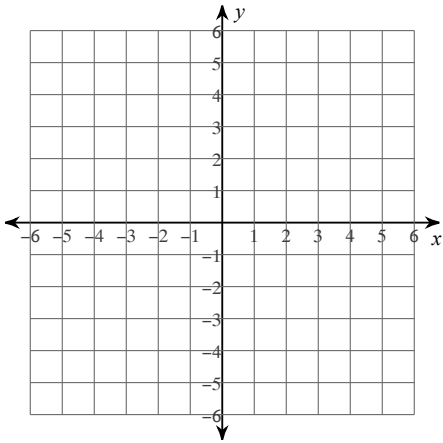
15) $x + 2y = -6$



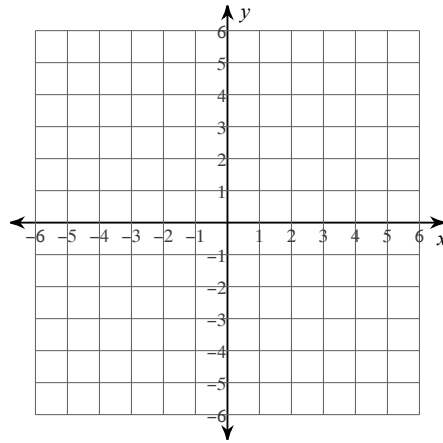
16) x -intercept = 4, y -intercept = -3



17) $x = -4y + 12$



18) $x - 2y = -6$



Write the equation in slope-intercept form using the point-slope form of the equation for the line.

19) $y + 5 = \frac{1}{2}(x + 4)$

20) $y + 5 = -8(x - 2)$

Write an equation in slope-intercept form for the line that contains the given point and the given slope.

21) through: $(1, -1)$, slope = 4

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

23) through: $(3, 0)$, slope = $\frac{1}{2}$

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

25) through: $(-1, -1)$, slope = 3

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

Write the equation in slope-intercept form for the line passing through the given points.

27) through: $(-2, -3)$ and $(-4, -1)$

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

29) through: $(0, -5)$ and $(-5, -2)$

30) through: $(-3, -1)$ and $(3, -3)$

31) through: $(0, 0)$ and $(1, 0)$

32) through: $(-1, 4)$ and $(-1, 5)$