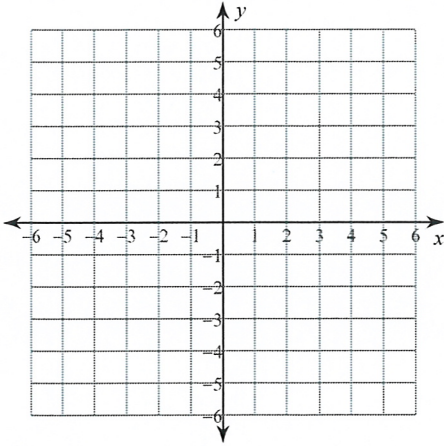


Unit 3 Study Guide

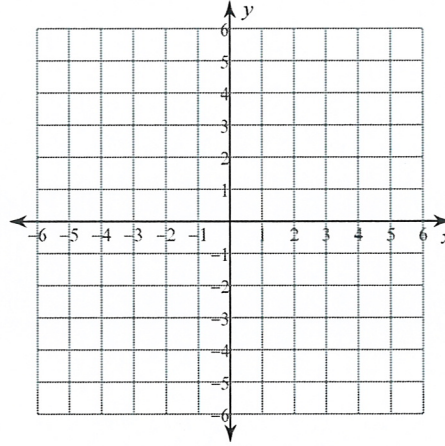
1) What are the 3 steps to graph an equation by making a table?

Graph the equation by making a table.

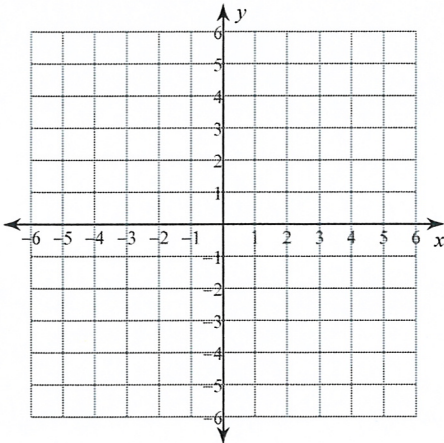
2) $5x + y = 5$



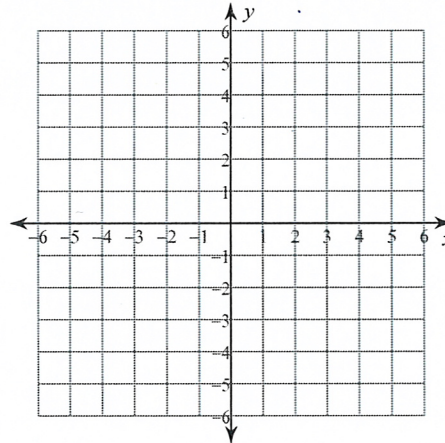
3) $y = 1$



4) $5x - 4y = -16$

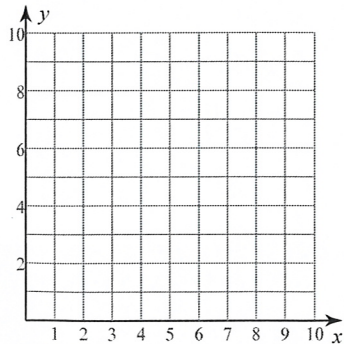


5) $x + y = -1$

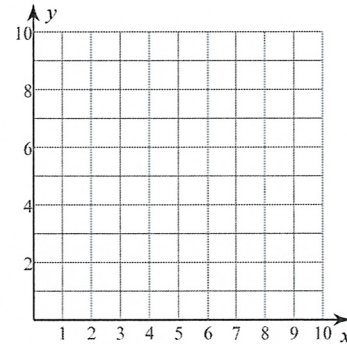


Plot each point.

6) $H(10, 1)$ $I(3, 4)$ $J(4, 0)$

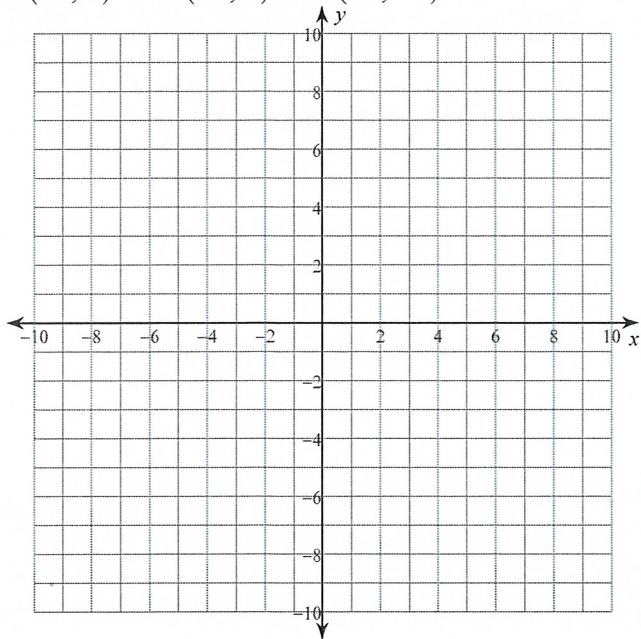


7) $E(3, 4)$ $F(7, 10)$ $G(10, 2)$

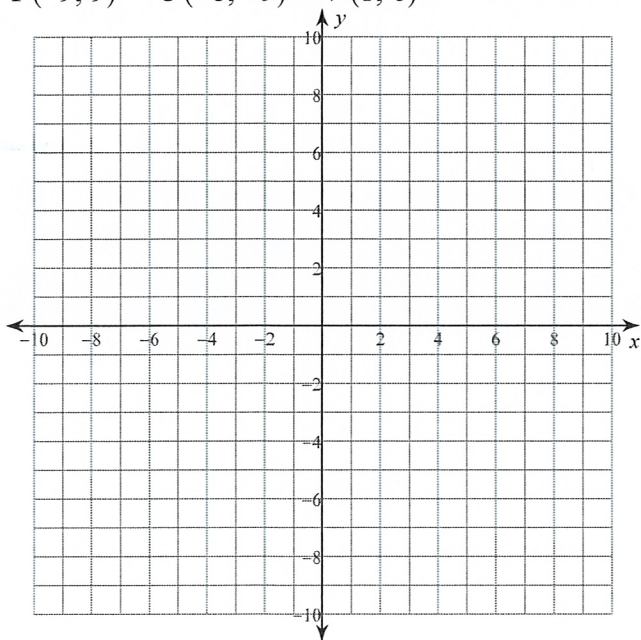


State the quadrant or axis that each point lies in.

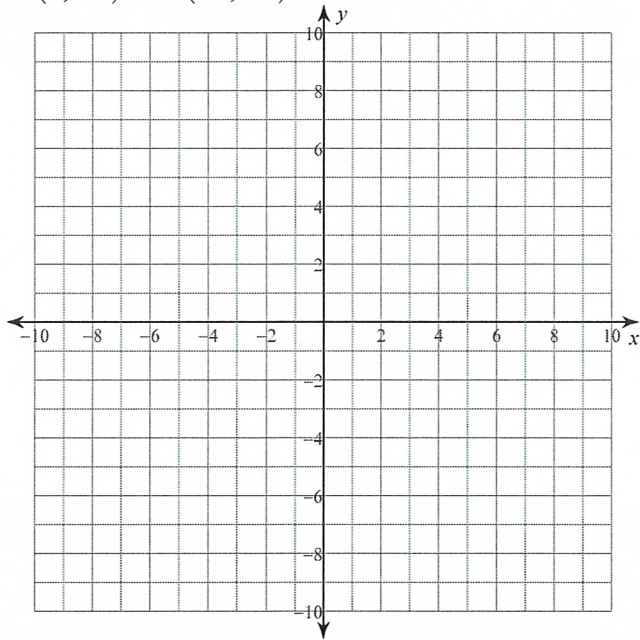
8) $L(-4, 1)$ $M(-5, 5)$ $N(-8, -3)$



9) $T(-9, 9)$ $U(-8, -9)$ $V(1, 6)$

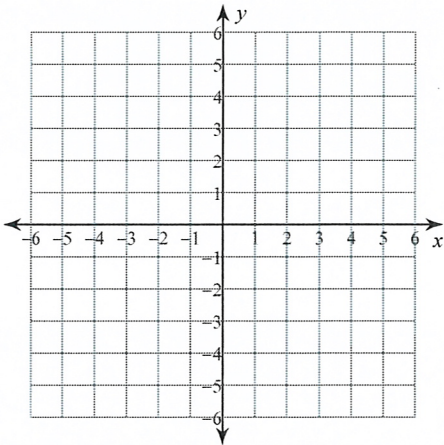


- 10) $K(8, -8)$ $J(-9, -9)$ $I(6, -9)$
 $H(4, -5)$ $G(-5, 10)$

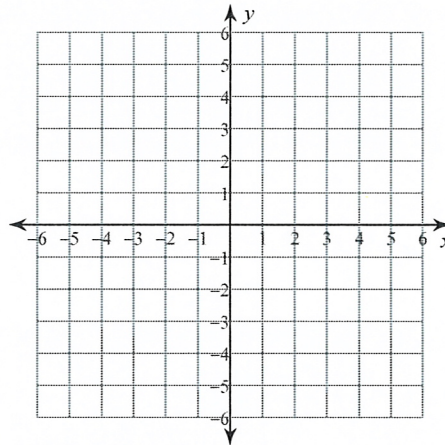


Graph each line using the x and y intercepts.

- 11) x-intercept = -1 , y-intercept = -1

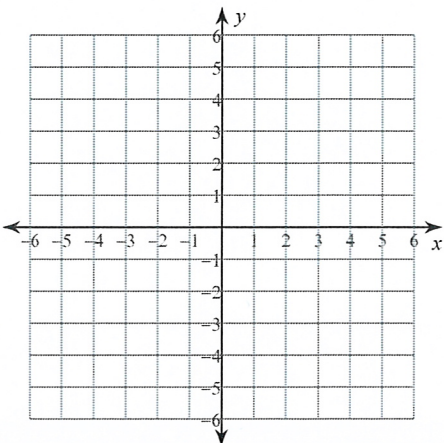


- 12) x-intercept = -5 , y-intercept = 5

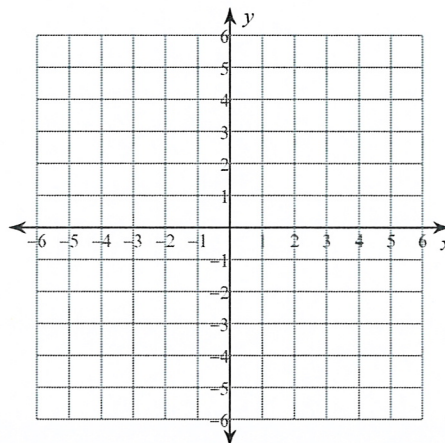


Graph the x and y intercepts of the line.

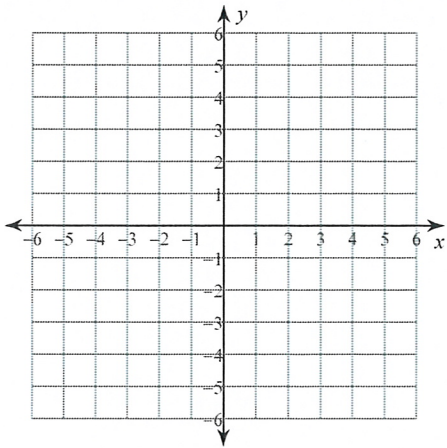
- 13) $2x + y = 4$



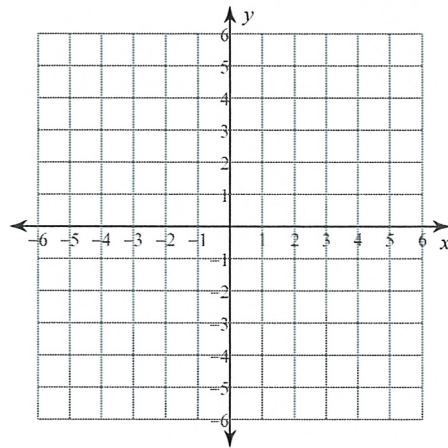
- 14) $x + y = -2$



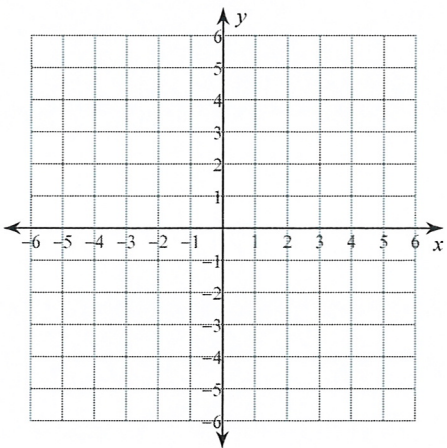
15) $x + 4y = 20$



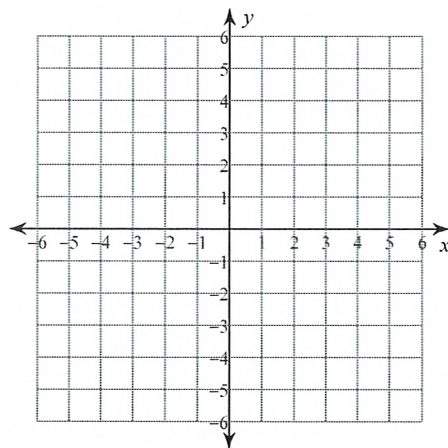
16) $y = 2$



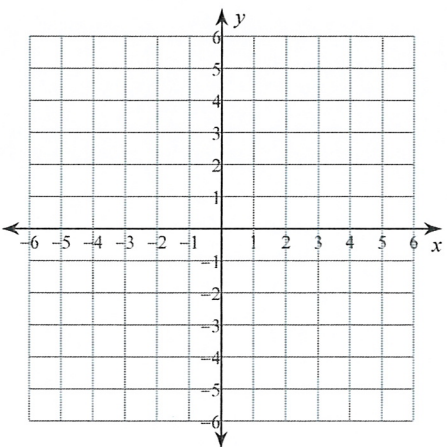
17) $x - 3y = -9$



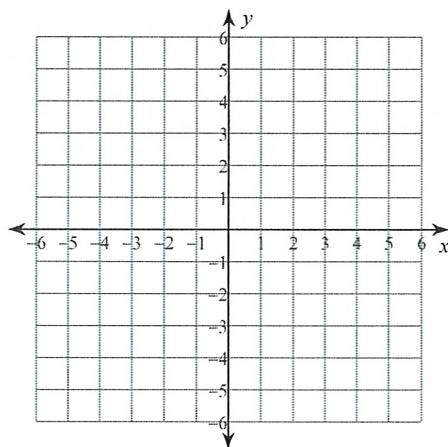
18) $x - 4y = 8$



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



20) $y = -\frac{9}{4}x + 5$



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

21) $(19, 20), (5, 6)$

22) $(-2, 19), (-11, 13)$

23) $(1, 11), (-19, 18)$

24) $(-9, 9), (-10, -16)$

Identify the slope and y intercept of each line.

25) $y = \frac{7}{5}x + 5$

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

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

28) $y = 4x - 1$

29) $y = x - 1$

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

30) $(-7, y)$ and $(2, -7)$; slope: $\frac{1}{9}$

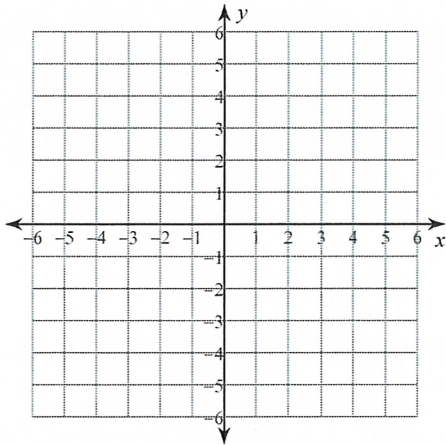
31) $(5, -3)$ and $(8, y)$; slope: -1

32) $(x, -9)$ and $(5, -1)$; slope: $\frac{4}{3}$

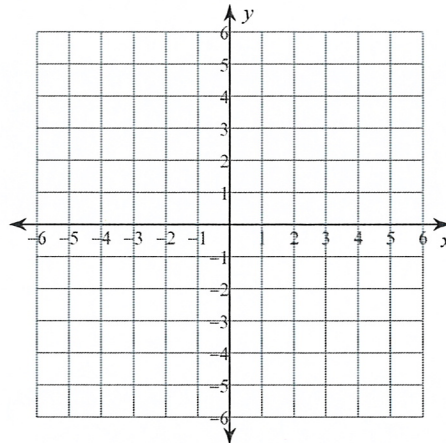
33) $(1, -1)$ and $(4, y)$; slope: $-\frac{2}{3}$

Sketch the graph of each line using slope intercept form

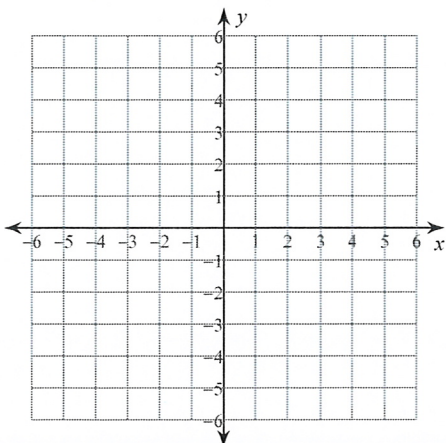
34) $y = -\frac{5}{2}x - 5$



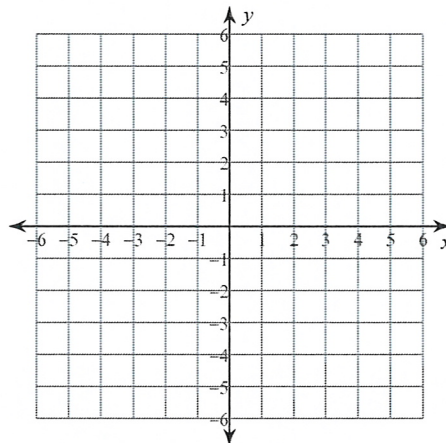
35) $y = -2x - 5$



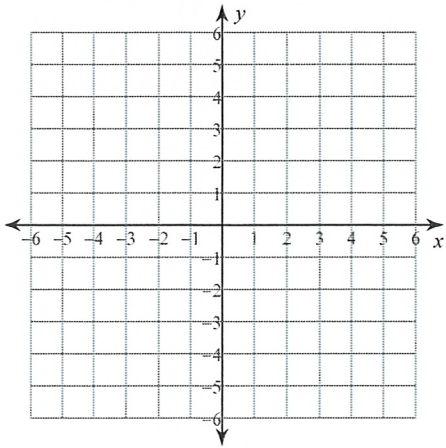
36) $y = -\frac{7}{3}x - 2$



37) $x + 3y = -6$

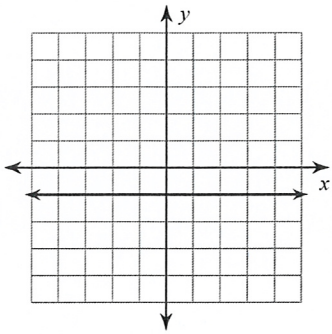


38) $2x - 5y = 15$

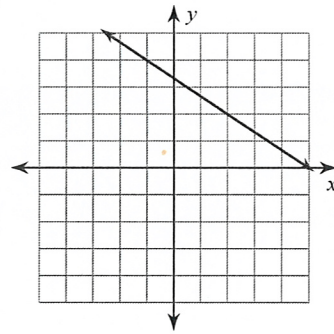


Determine whether the graph is positive, negative, undefined, zero.

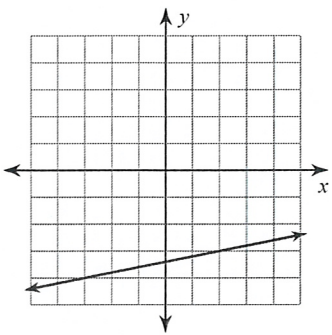
39)



40)



41)



42)

