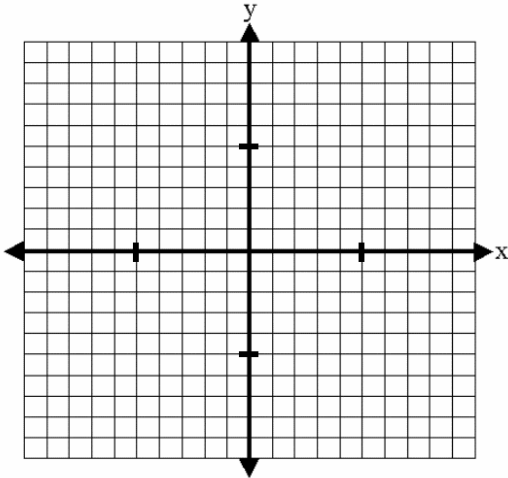


OBJECTIVE: To graph and write the equation of a line given a point and a parallel or perpendicular line.

1. Graph the line that passes through the point $(-6, 8)$ and is **parallel** to $y = -\frac{3}{2}x - 5$

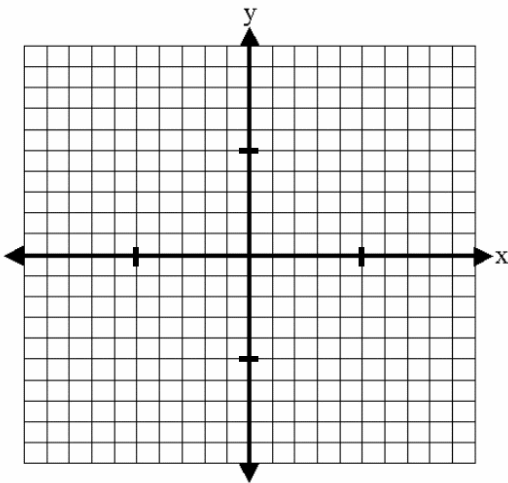


What is the slope of the line?

Where is the y-intercept?

Write the equation of the line.

2. Graph the line that passes through the point $(4, 6)$ and is **perpendicular** to $y = 4x - 3$.

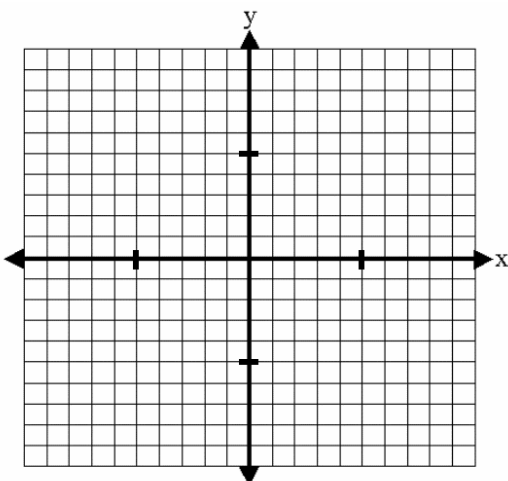


What is the slope of the line?

Where is the y-intercept?

Write the equation of the line.

3. Graph the line that passes through the point $(-6, 5)$ and is **perpendicular** to $y = \frac{3}{4}x + 18$



What is the slope of the line?

Where is the y-intercept?

Write the equation of the line.

4. Find the equation of the line that passes through the point $(-1, 9)$ and is **parallel** to $y = -7x + 5$.

5. Find the equation of the line that passes through the point $(2, -9)$ and is **perpendicular** to $y = -\frac{1}{6}x - 3$.

6. Find the equation of the line that passes through the point $(-4, -8)$ and is **parallel** to $y = \frac{5}{4}x - 10$.

Jumbled Answers

$$y = \frac{5}{4}x + 13$$

$$y = -\frac{1}{4}x + 7$$

$$y = -7x + 2$$

$$y = -\frac{4}{3}x - 3$$

$$y = -\frac{3}{2}x - 1$$

$$y = 6x - 21$$

$$-\frac{4}{3}$$

$$-\frac{3}{2}$$

$$-\frac{1}{4}$$

$$-3$$

$$7$$

$$-1$$