

Assignment 20

1. Graph a line starting with the point (6,3) that has a slope of $\frac{3}{2}$.

Write the equation of the line.

2. Graph a line that passes through points (4,-3) and (2,1).

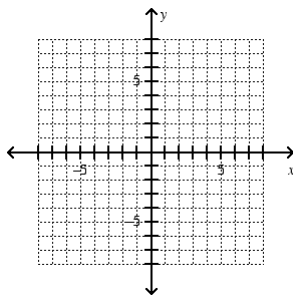
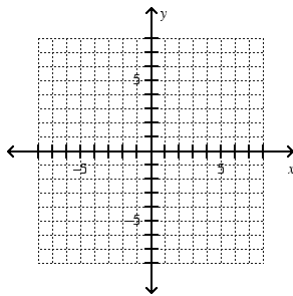
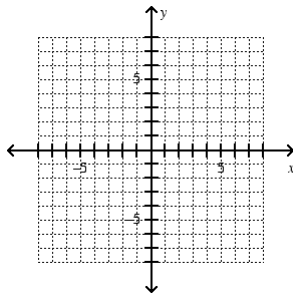
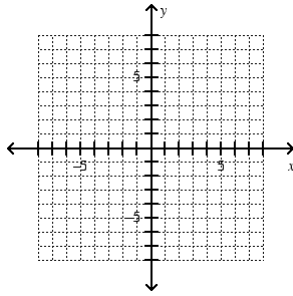
Write the equation of the line.

3. Graph a line that passes through points (-2,-3) and (-2,5).

Write the equation of the line.

4. Graph a line starting with the point (-4,-2) that has a slope of 0.

Write the equation of the line.



Find the slope of the following pairs of points

using the slope formula: $m = \frac{y_2 - y_1}{x_2 - x_1}$.

1. (1,2) ; (5,-6)

2. (-2,-3) ; (3,2)

3. (-1,2) ; (4,2)

4. (-3,2) ; (-9,-2)

5. (6,3) ; (6,-3)

6. (-4,0) ; (0,8)

Name: _____

1. Write the equation of the line that has a slope of -3 and passes through the point (2,6).

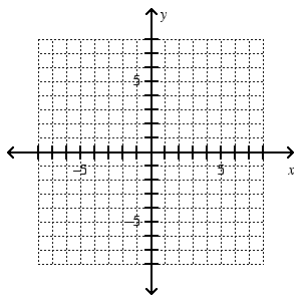
2. Write the equation of the line that has a slope of $\frac{1}{2}$ and passes through the point (-6,-1).

3. Write the equation of the line that has a slope of $-\frac{1}{4}$ and a y-intercept of 5.

4. Write the equation of the line that has a slope of $-\frac{4}{3}$ and passes through the point (-12,9).

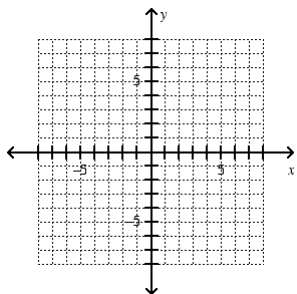
1. Graph a line parallel to $y = \frac{1}{2}x + 5$ that passes through $(4,0)$.

Write the equation of the line.



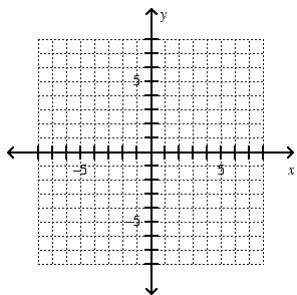
2. Graph a line parallel to $y = -\frac{4}{3}x$ that passes through $(6,-3)$.

Write the equation of the line.



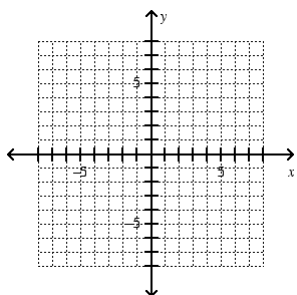
3. Graph a line parallel to $y = x$ that passes through $(-3,-5)$.

Write the equation of the line.



4. Graph a line parallel to $y = \frac{3}{2}x + 5$ that passes through $(-4,-6)$.

Write the equation of the line.



1. Write the equation of the line that is parallel to $y = -\frac{1}{2}x - 5$ and passes through $(4,1)$.

2. Write the equation of the line that is parallel to $y = x + 6$ and passes through $(-2,-5)$.

3. Write the equation of the line that is parallel to $y = \frac{2}{3}x$ and passes through $(0,5)$.

4. Write the equation of the line that is parallel to $y = -3x$ and has a y -intercept of 4.

Point Slope Practice

Write the equation of each line in **point slope form** through the given point with the given slope. Remember point-slope form is:

$$y - y_0 = m(x - x_0).$$

1. $(-1,3)$; $m = 2$

2. $(4,-3)$; $m = -\frac{1}{2}$

3. $(6,1)$; $m = \frac{3}{5}$

4. $(-2,5)$; $m = -1$

5. $(5,4)$; $m = -\frac{2}{3}$

6. $(8,-1)$; $m = \frac{5}{4}$