# Assignment

Date_____ Period____

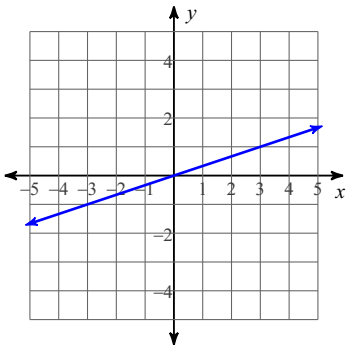
**Find the slope of the line through each pair of points.**

1) $(9, 5), (3, -16)$

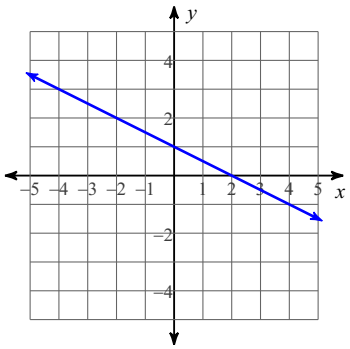
2) $(-19, -2), (-5, 6)$

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

3)




4)




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

5) through: $(3, 0)$ and $(-2, 5)$

6) through: $(0, 2)$ and $(2, 3)$

**Write the slope-intercept form of the equation of the line described.**

7) through: $(1, -3)$, parallel to $y = \frac{1}{3}x + 1$

8) through: $(-5, -1)$, parallel to $y = -\frac{4}{5}x - 2$

9) through: $(3, -4)$, perp. to $y = \frac{1}{3}x + 4$

10) through: $(4, 2)$, perp. to $y = -x - 1$

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

11) through: $(0, 5)$ and $(2, -3)$

12) through: $(3, -4)$ and $(2, -2)$

**Write the point-slope form of the equation of the line described.**

13) through: $(-3, 2)$, parallel to $y = \frac{1}{5}x$

14) through: $(1, -3)$, parallel to $y = -6x - 2$

15) through: $(-3, -3)$, perp. to $y = -\frac{1}{2}x - 2$

16) through: $(-2, -4)$, perp. to $y = -\frac{2}{9}x$

# Assignment

Date_____ Period____

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

1) $(9, 5), (3, -16)$

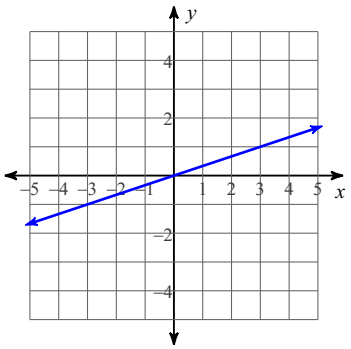
$\frac{7}{2}$

2) $(-19, -2), (-5, 6)$

$\frac{4}{7}$

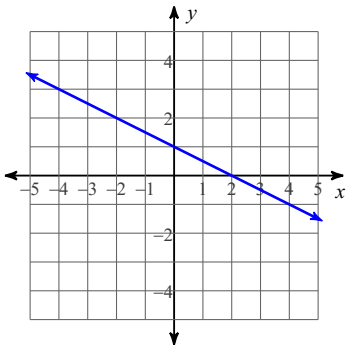
**Write the slope-intercept form of the equation of each line.**

3)




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

4)




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

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

5) through: $(3, 0)$ and $(-2, 5)$

$y = -x + 3$

6) through: $(0, 2)$ and $(2, 3)$

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

**Write the slope-intercept form of the equation of the line described.**

7) through: $(1, -3)$, parallel to $y = \frac{1}{3}x + 1$

$y = \frac{1}{3}x - \frac{10}{3}$

8) through: $(-5, -1)$, parallel to $y = -\frac{4}{5}x - 2$

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

9) through: $(3, -4)$, perp. to $y = \frac{1}{3}x + 4$

$y = -3x + 5$

10) through: $(4, 2)$, perp. to $y = -x - 1$

$y = x - 2$

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

11) through: $(0, 5)$ and $(2, -3)$

$y - 5 = -4x$

12) through: $(3, -4)$ and $(2, -2)$

$y + 4 = -2(x - 3)$

**Write the point-slope form of the equation of the line described.**

13) through: $(-3, 2)$, parallel to $y = \frac{1}{5}x$

$y - 2 = \frac{1}{5}(x + 3)$

14) through: $(1, -3)$, parallel to $y = -6x - 2$

$y + 3 = -6(x - 1)$

15) through: $(-3, -3)$, perp. to $y = -\frac{1}{2}x - 2$

$y + 3 = 2(x + 3)$

16) through: $(-2, -4)$, perp. to $y = -\frac{2}{9}x$

$y + 4 = \frac{9}{2}(x + 2)$

# Assignment

Date_____ Period____

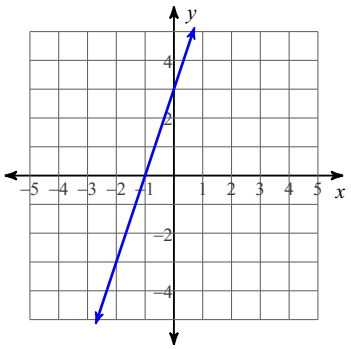
**Find the slope of the line through each pair of points.**

1) $(-1, -15), (15, -15)$

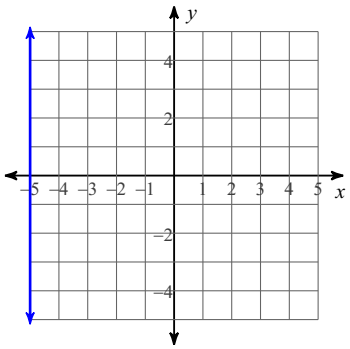
2) $(16, 4), (-7, 13)$

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

3)




4)




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

5) through: $(0, 2)$ and $(3, 1)$

6) through: $(4, 3)$ and $(0, 2)$

**Write the slope-intercept form of the equation of the line described.**

7) through: $(5, -2)$, parallel to $y = -x - 5$

8) through: $(-4, -3)$, parallel to $y = \frac{1}{2}x + 5$

9) through: $(3, 2)$, perp. to $y = -\frac{5}{2}x + 4$

10) through: $(-3, 0)$, perp. to $y = 3x + 3$

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

11) through: $(4, 2)$ and $(-2, 0)$

12) through: $(4, 3)$ and $(-2, 2)$

**Write the point-slope form of the equation of the line described.**

13) through: $(-5, 2)$, parallel to $y = \frac{2}{5}x$

14) through: $(4, 1)$, parallel to $y = \frac{5}{4}x + 3$

15) through: $(1, -2)$, perp. to $y = \frac{1}{2}x$

16) through: $(-5, 2)$, perp. to $y = \frac{5}{7}x - 3$

# Assignment

Date_____ Period____

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

1) $(-1, -15), (15, -15)$

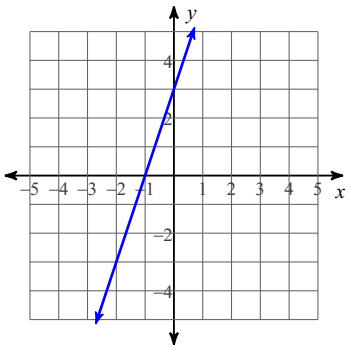
$0$

2) $(16, 4), (-7, 13)$

$-\frac{9}{23}$

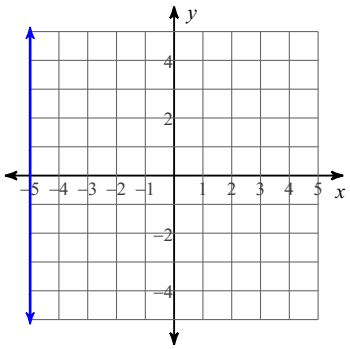
**Write the slope-intercept form of the equation of each line.**

3)




$y = 3x + 3$

4)




$x = -5$

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

5) through: $(0, 2)$ and $(3, 1)$

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

6) through: $(4, 3)$ and $(0, 2)$

$y = \frac{1}{4}x + 2$

**Write the slope-intercept form of the equation of the line described.**

7) through: $(5, -2)$, parallel to $y = -x - 5$

$y = -x + 3$

8) through: $(-4, -3)$, parallel to $y = \frac{1}{2}x + 5$

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

9) through: $(3, 2)$, perp. to $y = -\frac{5}{2}x + 4$

$y = \frac{2}{5}x + \frac{4}{5}$

10) through: $(-3, 0)$, perp. to $y = 3x + 3$

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

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

11) through: $(4, 2)$ and $(-2, 0)$

$y - 2 = \frac{1}{3}(x - 4)$

12) through: $(4, 3)$ and $(-2, 2)$

$y - 3 = \frac{1}{6}(x - 4)$

**Write the point-slope form of the equation of the line described.**

13) through: $(-5, 2)$, parallel to $y = \frac{2}{5}x$

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

14) through: $(4, 1)$, parallel to $y = \frac{5}{4}x + 3$

$y - 1 = \frac{5}{4}(x - 4)$

15) through: $(1, -2)$, perp. to $y = \frac{1}{2}x$

$y + 2 = -2(x - 1)$

16) through: $(-5, 2)$, perp. to $y = \frac{5}{7}x - 3$

$y - 2 = -\frac{7}{5}(x + 5)$