

Slope, Slope-Intercept Form, Parallel & Perpendicular Lines

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

1) $(1, 10), (13, 14)$

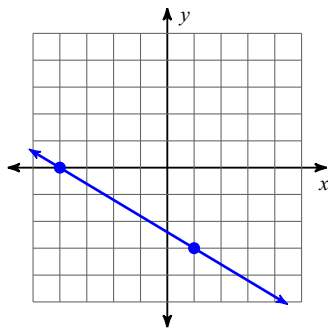
2) $(-6, 15), (-9, 15)$

Find the slope of each line.

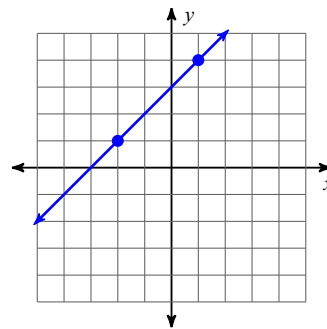
3) $y = 5x$

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

5)



6)



7) $x - y = 0$

8) $7x + y = 5$

Find the slope of a line parallel to each given line.

9) $x = -3$

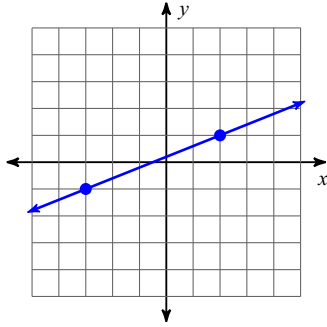
10) $y = -x + 2$

11) $5x - y = -5$

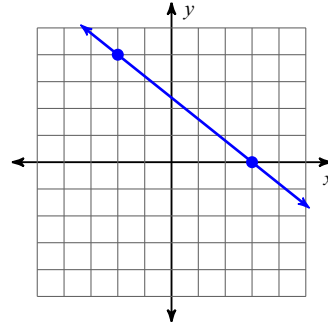
12) $4x + y = 0$

Find a line parallel to the given line.

13)



14)



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

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

16) through: $(4, 0)$, parallel to $y = \frac{5}{4}x - 2$

Find the slope of a line perpendicular to each given line.

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

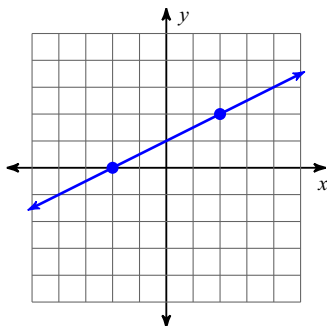
18) $y = \frac{5}{3}x + 1$

19) $x + 5y = 10$

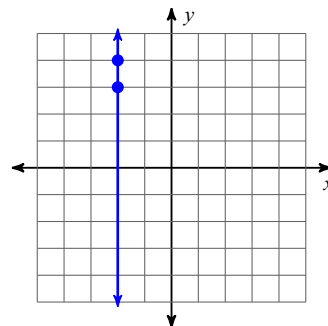
20) $3x + 2y = 6$

Find a line perpendicular to the given line.

21)



22)



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

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

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

Slope, Slope-Intercept Form, Parallel & Perpendicular Lines

Period _____

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

1) (1, 10), (13, 14)

$\frac{1}{3}$

2) (-6, 15), (-9, 15)

0

Find the slope of each line.

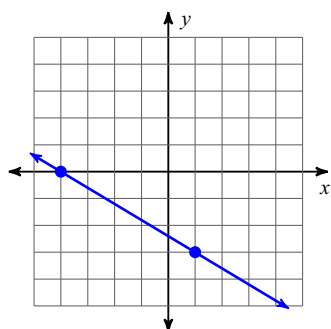
3) $y = 5x$

5

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

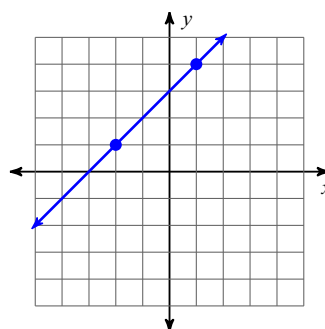
$\frac{3}{2}$

5)



$-\frac{3}{5}$

6)



1

7) $x - y = 0$

1

8) $7x + y = 5$

-7

Find the slope of a line parallel to each given line.

9) $x = -3$

Undefined

10) $y = -x + 2$

-1

11) $5x - y = -5$

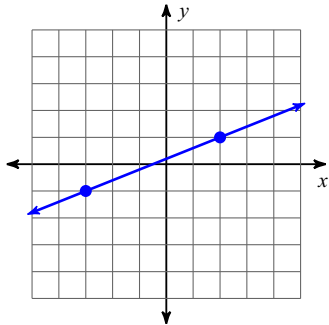
5

12) $4x + y = 0$

-4

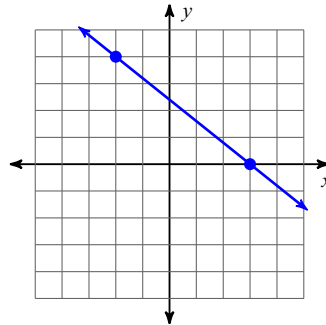
Find a line parallel to the given line.

13)



$$\frac{2}{5}$$

14)



$$-\frac{4}{5}$$

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

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

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

16) through: $(4, 0)$, parallel to $y = \frac{5}{4}x - 2$

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

Find the slope of a line perpendicular to each given line.

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

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

18) $y = \frac{5}{3}x + 1$

$$-\frac{3}{5}$$

19) $x + 5y = 10$

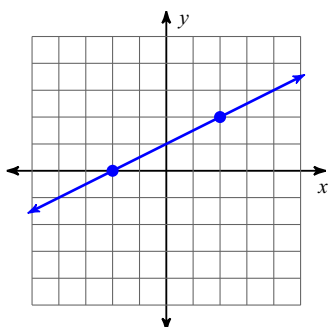
$$5$$

20) $3x + 2y = 6$

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

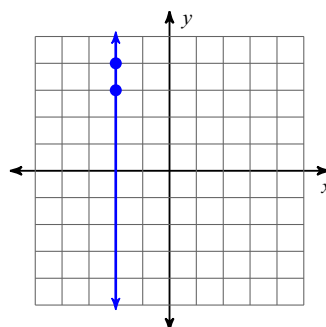
Find a line perpendicular to the given line.

21)



$$\frac{1}{2}$$

22)



Undefined

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

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

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

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

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