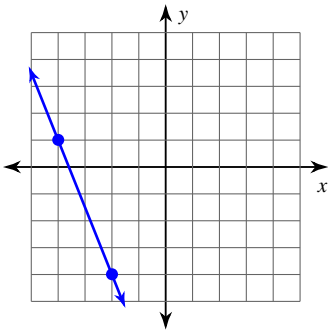


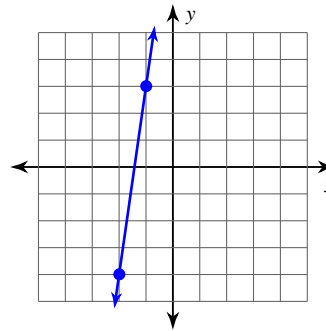
Parallel Lines in the Coordinate Plane

Find the slope of each line.

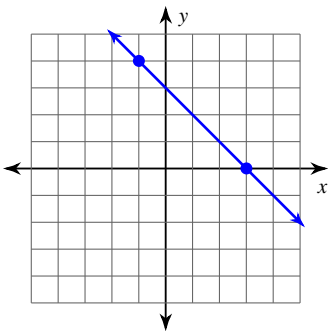
1)



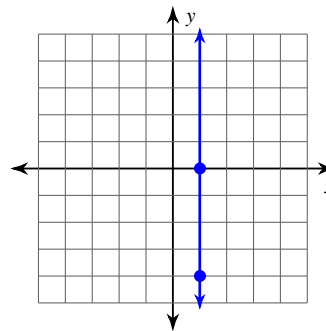
2)



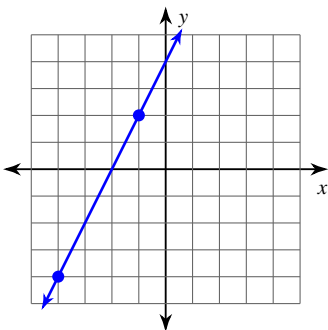
3)



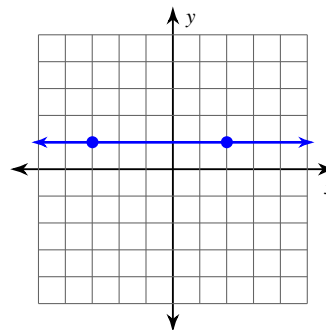
4)



5)



6)



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

8) $y = 2x - 2$

9) $x = -1$

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

11) $y = -\frac{7}{5}x - 3$

12) $y = -\frac{5}{4}x - 2$

Write the slope-intercept form of the equation of each line given the slope and y-intercept.

13) Slope = -3 , y-intercept = -1

14) Slope = $\frac{5}{3}$, y-intercept = -3

15) Slope = -1 , y-intercept = 3

16) Slope = $\frac{2}{5}$, y-intercept = 1

17) Slope = 3 , y-intercept = 0

18) Slope = $-\frac{1}{2}$, y-intercept = 4

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

19) $y = 2x - 5$

20) $y = 2x - 4$

21) $y = \frac{4}{5}x - 3$

22) $y = -\frac{8}{3}x - 4$

23) $y = -x - 2$

24) $y = -2x - 1$

Critical thinking questions:

25) Fill in the blank so that the lines are not parallel:

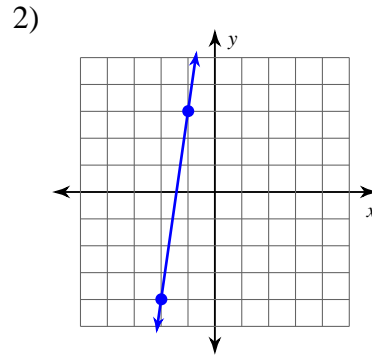
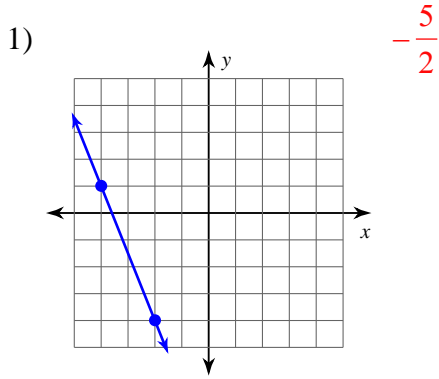
Line A goes through _____ Line B goes through _____

(0, 8) and (-2, 0) (1, 2) and (3, ___)

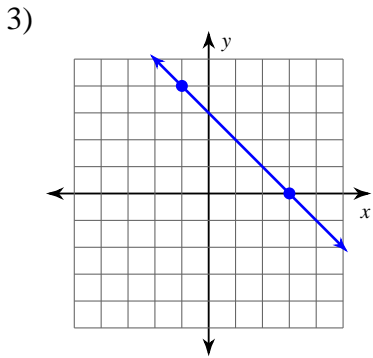
26) Write the equations of five lines that are parallel to $y = \frac{x}{2} - 6$

Parallel Lines in the Coordinate Plane

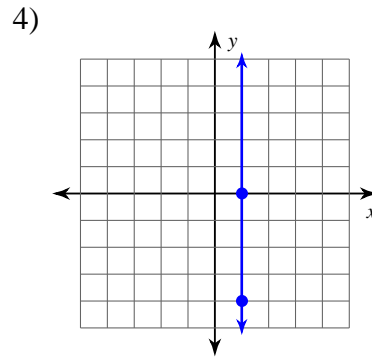
Find the slope of each line.



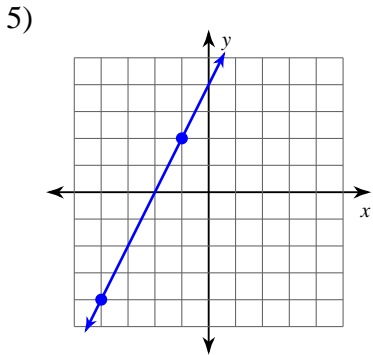
7



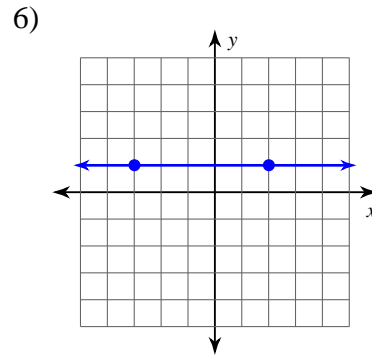
-1



Undefined



2



0

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

$-\frac{1}{3}$

8) $y = 2x - 2$

2

9) $x = -1$

Undefined

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

$\frac{3}{2}$

$$11) y = -\frac{7}{5}x - 3$$

$$-\frac{7}{5}$$

$$12) y = -\frac{5}{4}x - 2$$

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

Write the slope-intercept form of the equation of each line given the slope and y-intercept.

13) Slope = -3 , y-intercept = -1

$$y = -3x - 1$$

14) Slope = $\frac{5}{3}$, y-intercept = -3

$$y = \frac{5}{3}x - 3$$

15) Slope = -1 , y-intercept = 3

$$y = -x + 3$$

16) Slope = $\frac{2}{5}$, y-intercept = 1

$$y = \frac{2}{5}x + 1$$

17) Slope = 3 , y-intercept = 0

$$y = 3x$$

18) Slope = $-\frac{1}{2}$, y-intercept = 4

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

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

19) $y = 2x - 5$

$$2$$

20) $y = 2x - 4$

$$2$$

21) $y = \frac{4}{5}x - 3$

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

22) $y = -\frac{8}{3}x - 4$

$$-\frac{8}{3}$$

23) $y = -x - 2$

$$-1$$

24) $y = -2x - 1$

$$-2$$

Critical thinking questions:

25) Fill in the blank so that the lines are not parallel:

Line A goes through _____ Line B goes through _____
 (0, 8) and (-2, 0) (1, 2) and (3, ___)

Anything but 10

26) Write the equations of five lines that are parallel to $y = \frac{x}{2} - 6$

Many answers. Ex: $y = \frac{x}{2} + 4$