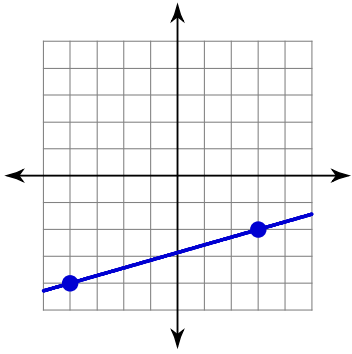


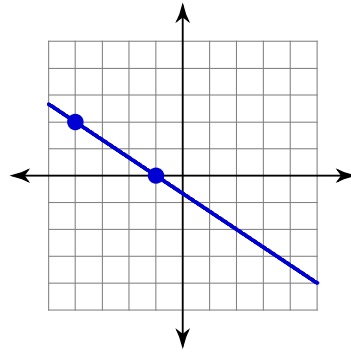
Parallel Lines in the Coordinate Plane

Find the slope of each line.

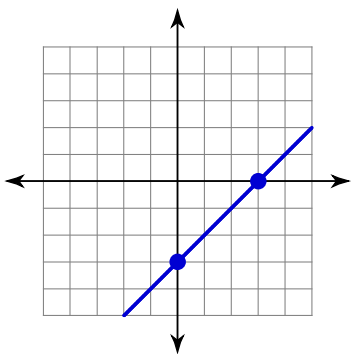
1)



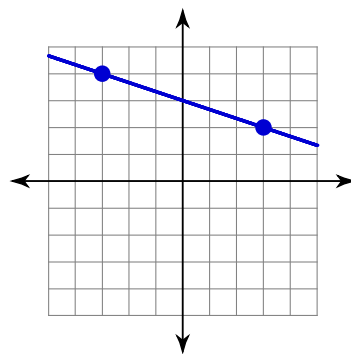
2)



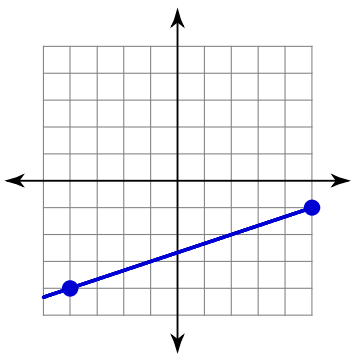
3)



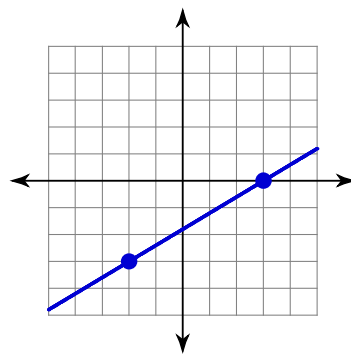
4)



5)



6)



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

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

9) $y = -x - 3$

10) $y = -2x - 2$

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

12) $y = 4x - 2$

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, ___)

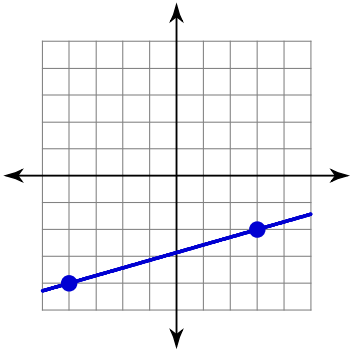
26) Write the equations of five lines that are

parallel to $y = \frac{x}{2} - 6$

Parallel Lines in the Coordinate Plane

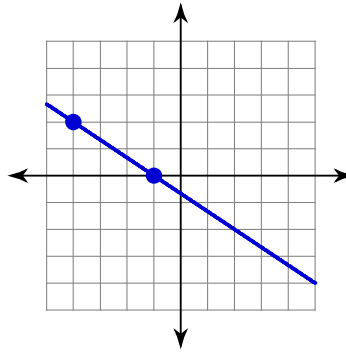
Find the slope of each line.

1)



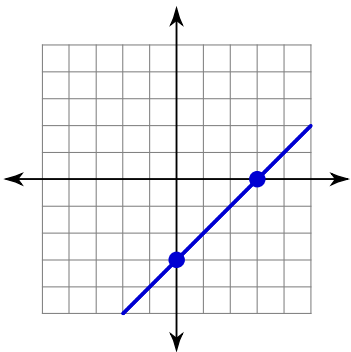
$$\frac{2}{7}$$

2)



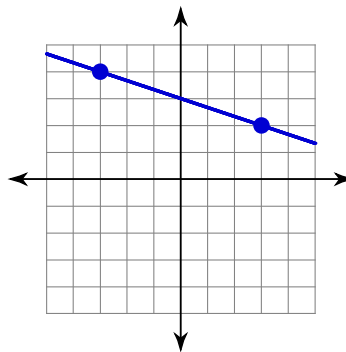
$$-\frac{2}{3}$$

3)



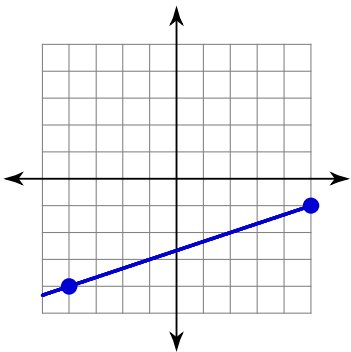
$$1$$

4)



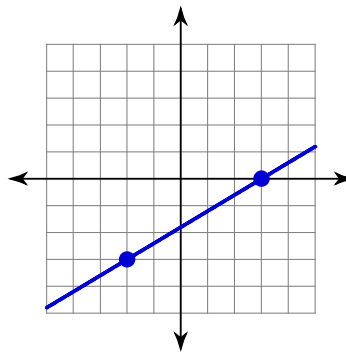
$$-\frac{1}{3}$$

5)



$$\frac{1}{3}$$

6)



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

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

$$-\frac{7}{3}$$

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

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

9) $y = -x - 3$

 -1

10) $y = -2x - 2$

 -2

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

 $\frac{2}{5}$

12) $y = 4x - 2$

 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: $y = \frac{x}{2} + 4$**