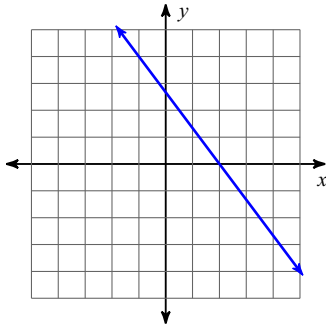


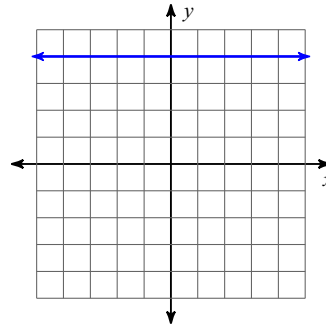
Slopes, Equations of Lines, and Graphing

Find the slope of each line.

1)



2)



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

3) $(-10, -16), (-13, 7)$

4) $(-8, 15), (-19, 19)$

Find the slope of each line.

5) $y = 2x + 3$

6) $3x + y = -1$

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

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

8) $x - y = 4$

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

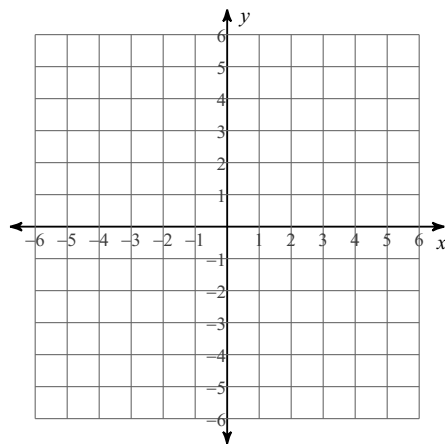
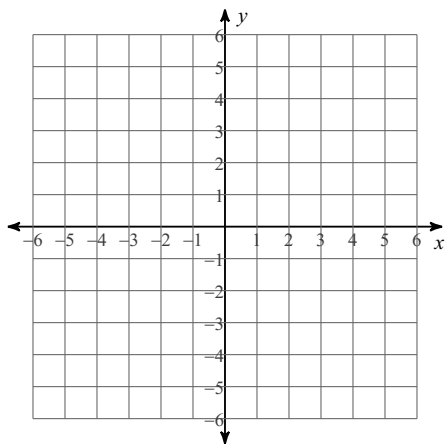
9) $y = 2$

10) $x + y = 0$

Sketch the graph of each line.

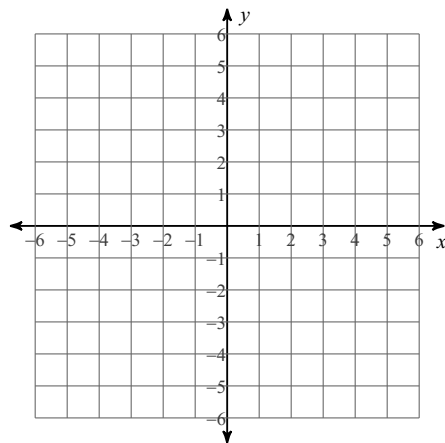
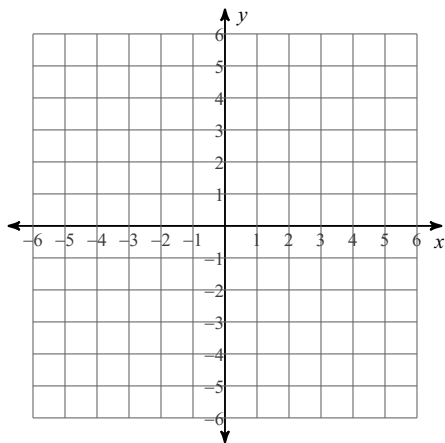
11) $y = -\frac{1}{5}x - 1$

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



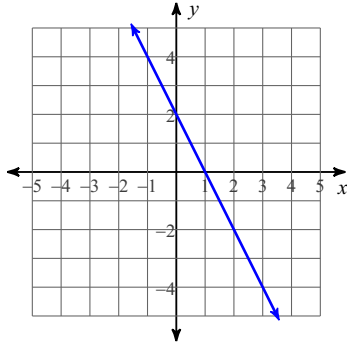
13) $x + y = -3$

14) $3x - y = 4$

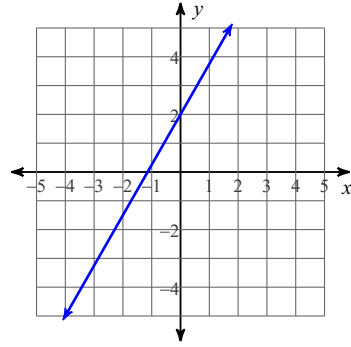


Write the slope-intercept form of the equation of each line.

15)



16)



17) Slope = -4 , y-intercept = -3

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

19) $11x + 7y = 21$

20) $12x - y = -6$

21) through: $(4, 0)$, slope = $\frac{5}{4}$

22) through: $(-2, -5)$, slope = 9

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

24) through: $(-1, 5)$ and $(0, -1)$

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

26) through: $(1, 5)$, parallel to $y = \frac{7}{3}x - 1$

27) through: $(2, -5)$, perp. to $y = \frac{1}{5}x - 3$

28) through: $(1, -2)$, perp. to $y = \frac{1}{3}x - 4$

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

29) through: $(-3, -5)$, slope = 0

30) through: $(5, 3)$, slope = $\frac{7}{9}$

31) through: $(-4, 2)$ and $(-1, 4)$

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

Answers to Slopes, Equations of Lines, and Graphing (ID: 1)

1) $-\frac{4}{3}$

2) 0

3) $-\frac{23}{3}$

4) $-\frac{4}{11}$

5) 2

6) -3

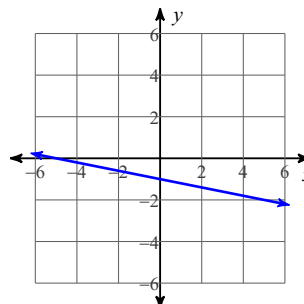
7) $\frac{4}{3}$

8) 1

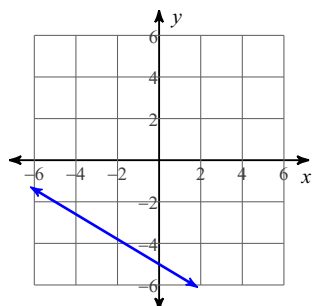
9) Undefined

10) 1

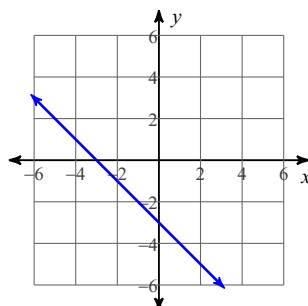
11)



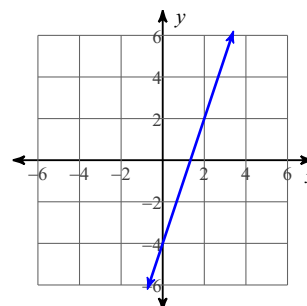
12)



13)



14)



15) $y = -2x + 2$

16) $y = \frac{7}{4}x + 2$

17) $y = -4x - 3$

18) $y = -\frac{1}{2}x - 5$

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

20) $y = 12x + 6$

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

22) $y = 9x + 13$

23) $y = 4x + 3$

24) $y = -6x - 1$

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

26) $y = \frac{7}{3}x + \frac{8}{3}$

27) $y = -5x + 5$

28) $y = -3x + 1$

29) $y + 5 = 0$

30) $y - 3 = \frac{7}{9}(x - 5)$

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

32) $y + 5 = \frac{10}{3}(x + 3)$