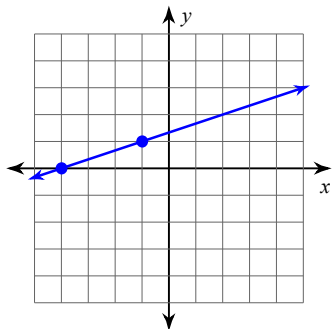


Week 8 Practicefor Q2Exam2

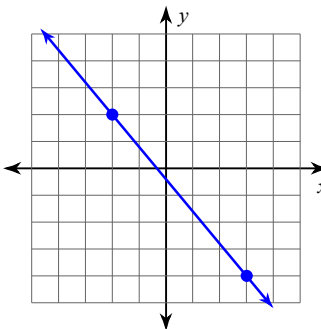
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Find the slope of each line.

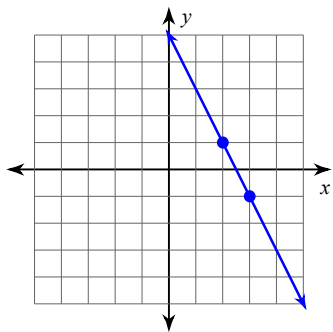
1)



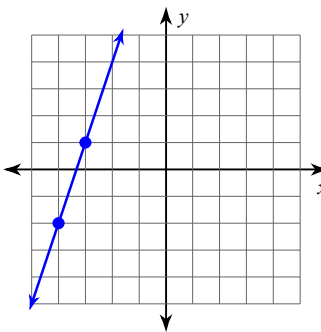
2)



3)



4)

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

5) $(20, 14), (6, -20)$

6) $(4, -19), (-12, 18)$

7) $(15, -14), (-4, 1)$

8) $(3, 6), (-14, -16)$

9) $(-10, -6), (18, -6)$

10) $(3, -11), (-9, -20)$

11) $(-9, 1), (20, -13)$

12) $(-9, 18), (-18, 4)$

13) $(20, -19), (10, -17)$

14) $(16, 10), (1, -2)$

15) $(19, -3), (14, -14)$

16) $(17, -7), (-3, 3)$

Write the standard form of the equation of each line.

17) $x - 5 = y$

18) $1 = y - \frac{1}{4}x$

19) $5 = y + x$

20) $2x = 3y - 6$

21) $21x - 45 = -15y$

22) $4 = -y + 2x$

23) $-2x = 2$

24) $15 + 21x - 3y = 0$

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

25) Slope = 2, y-intercept = 4

26) Slope = $\frac{4}{5}$, y-intercept = -5

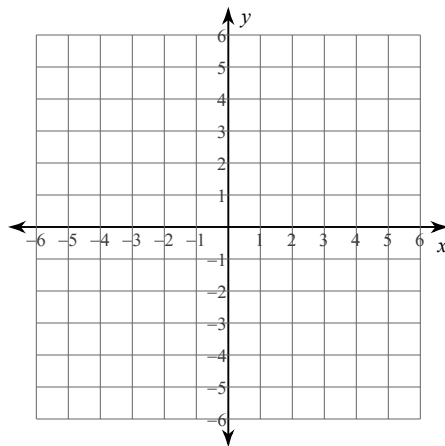
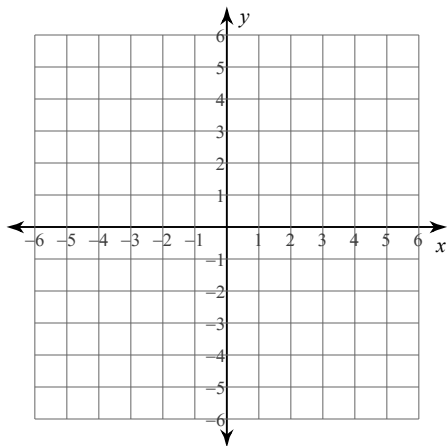
27) Slope = -5, y-intercept = 3

28) Slope = -1, y-intercept = 1

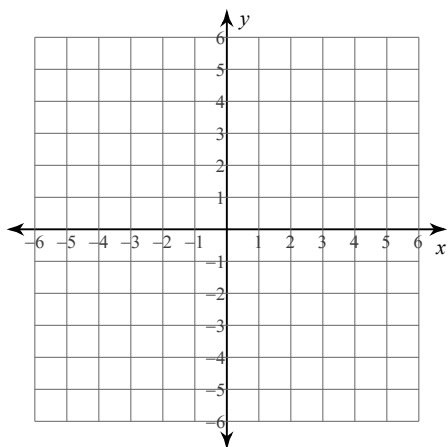
Sketch the graph of each line.

29) $y = \frac{7}{5}x + 3$

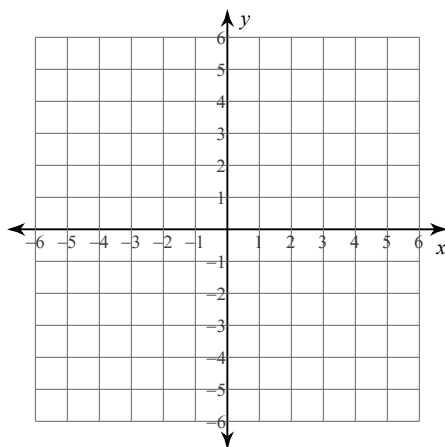
30) $y = \frac{1}{3}x$



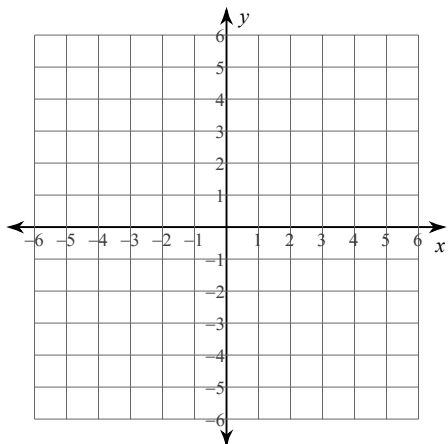
31) $y = \frac{3}{2}x + 5$



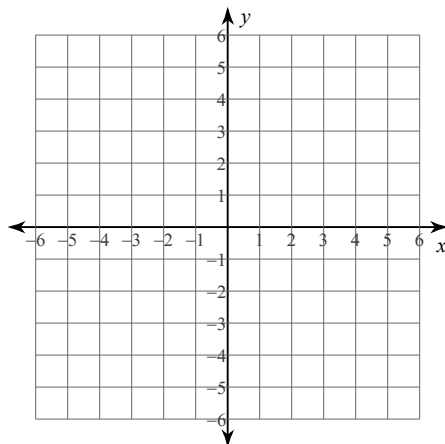
32) $y = -\frac{3}{2}x + 1$



33) $x + y = -2$



34) $2x - y = 5$



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

35) $-4y = -8 + 7x$

36) $8x = 5y + 15$

37) $3y = 12 - x$

38) $1 - y = -2x$

39) $12 - 3y = -5x$

40) $y - x = -3$

41) $4x - 12 = -y$

42) $1 - y - \frac{3}{4}x = 0$

43) $8 + 6x = 16y$

44) $-4y - 6x = -20$

45) $0 = 20 - 9x - 5y$

46) $-5x - 10 = 2y$

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

47) through: $(4, -4)$ and $(-1, 1)$

48) through: $(0, 2)$ and $(2, 4)$

49) through: $(0, 5)$ and $(1, 4)$

50) through: $(5, 3)$ and $(0, 3)$

51) through: $(-4, 5)$ and $(0, -5)$

52) through: $(4, 4)$ and $(-5, 2)$

53) through: $(4, 1)$ and $(0, -4)$

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

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

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

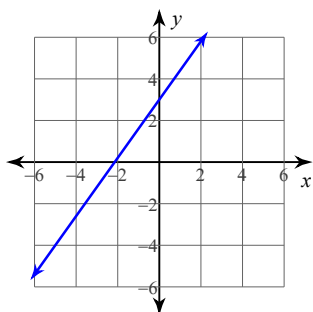
57) through: $(-2, 4)$ and $(0, -3)$

58) through: $(-2, 3)$ and $(0, -4)$

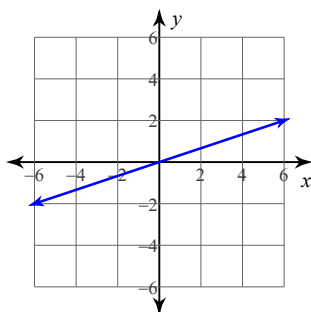
Answers to Week 8 Practicefor Q2Exam2 (ID: 1)

- 1) $\frac{1}{3}$ 2) $-\frac{6}{5}$ 3) -2 4) 3
 5) $\frac{17}{7}$ 6) $-\frac{37}{16}$ 7) $-\frac{15}{19}$ 8) $\frac{22}{17}$
 9) 0 10) $\frac{3}{4}$ 11) $-\frac{14}{29}$ 12) $\frac{14}{9}$
 13) $-\frac{1}{5}$ 14) $\frac{4}{5}$ 15) $\frac{11}{5}$ 16) $-\frac{1}{2}$
 17) $x - y = 5$ 18) $x - 4y = -4$ 19) $x + y = 5$ 20) $2x - 3y = -6$
 21) $7x + 5y = 15$ 22) $2x - y = 4$ 23) $x = -1$ 24) $7x - y = -5$
 25) $y = 2x + 4$ 26) $y = \frac{4}{5}x - 5$ 27) $y = -5x + 3$ 28) $y = -x + 1$

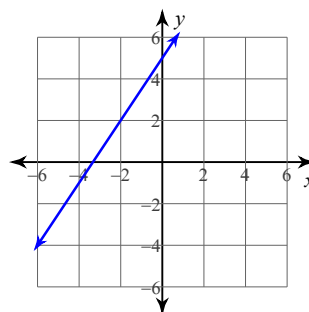
29)



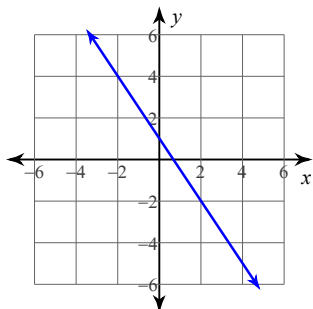
30)



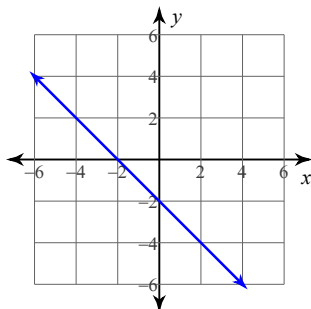
31)



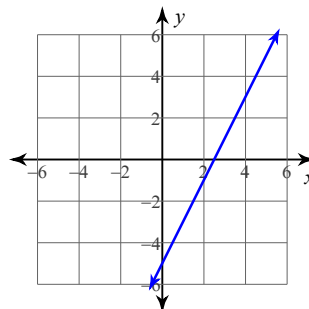
32)



33)



34)



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

36) $y = \frac{8}{5}x - 3$

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

38) $y = 2x + 1$

39) $y = \frac{5}{3}x + 4$

40) $y = x - 3$

41) $y = -4x + 12$

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

43) $y = \frac{3}{8}x + \frac{1}{2}$

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

45) $y = -\frac{9}{5}x + 4$

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

47) $y = -x$

48) $y = x + 2$

49) $y = -x + 5$

50) $y = 3$

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

52) $y = \frac{2}{9}x + \frac{28}{9}$

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

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

55) $y = \frac{5}{2}x + 3$

56) $y = -2x + 5$

57) $y = -\frac{7}{2}x - 3$

58) $y = -\frac{7}{2}x - 4$