14-10-01-8 -- Opportunity for more practice

Write the standard form of the equation of each line.

1) $y = -2x - 6$

2) $y = x + 4$

3) $y = 2x - 4$

4) $y = \frac{3}{2}x + 6$

5) $y = 2x + 1$

6) $y = -x + 1$

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

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

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

10) $y - 1 = \frac{4}{5}(x - 1)$

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

12) $y + 5 = -\frac{3}{2}(x - 4)$

13) $y - 4 = -7(x - 3)$

14) $y - 4 = 4(x - 2)$

15) $y + 3 = -2(x - 1)$

16) $y + 5 = -3(x - 1)$

Write the standard form of the equation of the line through the given points.

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

18) through: $(-1, -3)$ and $(0, 5)$

19) through: $(-2, -2)$ and $(0, 2)$

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

21) through: $(0, 5)$ and $(-3, 4)$

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

23) through: $(0, 2)$ and $(1, 0)$

24) through: $(0, -4)$ and $(-2, -1)$

Write the standard form of the equation of the line described.

25) through: $(-3, -2)$, parallel to $y = \frac{1}{3}x - 2$

26) through: $(-4, -2)$, parallel to $y = \frac{1}{4}x + 3$

27) through: $(2, -4)$, parallel to $y = -x - 1$

28) through: $(4, -5)$, parallel to $y = -\frac{5}{4}x - 1$

29) through: $(-2, 5)$, parallel to $x = 0$

30) through: $(2, 0)$, parallel to $y = -1$

31) through: $(-2, 3)$, parallel to $y = -\frac{7}{2}x - 1$

32) through: $(-2, -3)$, parallel to $y = \frac{5}{2}x - 2$

33) through: $(-1, -3)$, parallel to $x = 0$

34) through: $(-3, -5)$, perp. to $y = -2x + 1$

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

36) through: $(-3, 3)$, perp. to $y = -3x - 3$

37) through: $(4, -3)$, perp. to $y = \frac{4}{7}x + 4$

38) through: $(-3, 0)$, perp. to $y = \frac{5}{3}x$

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

40) through: $(-3, 3)$, perp. to $y = -\frac{1}{3}x + 1$

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

42) through: $(-3, -5)$, perp. to $x = 0$

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

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

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

45) through: $(-4, -3)$ and $(-2, -1)$

46) through: $(0, 1)$ and $(-2, -2)$

47) through: $(5, -1)$ and $(-4, 5)$

48) through: $(1, 0)$ and $(-4, 2)$

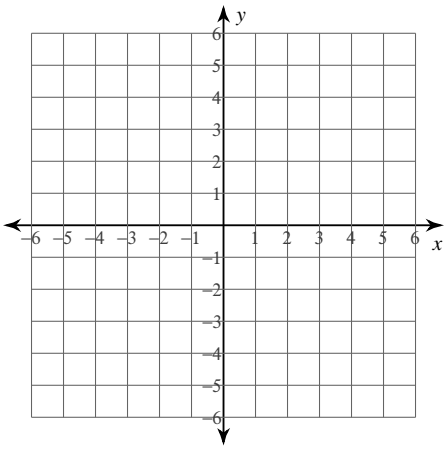
49) through: $(0, 2)$ and $(4, 0)$

50) through: $(5, -1)$ and $(0, 4)$

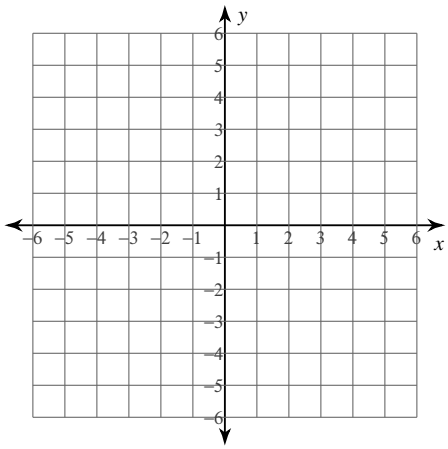
51) through: $(-3, -4)$ and $(0, 3)$

Sketch the graph of each line.

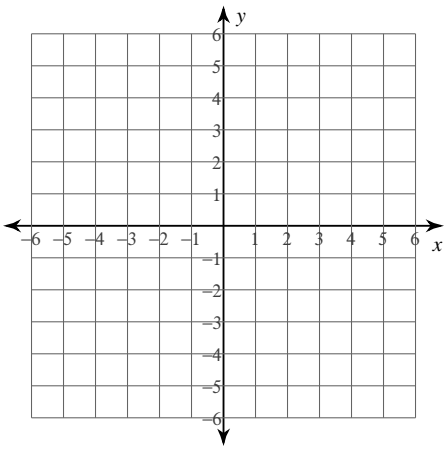
52) $7x - 2y = -10$



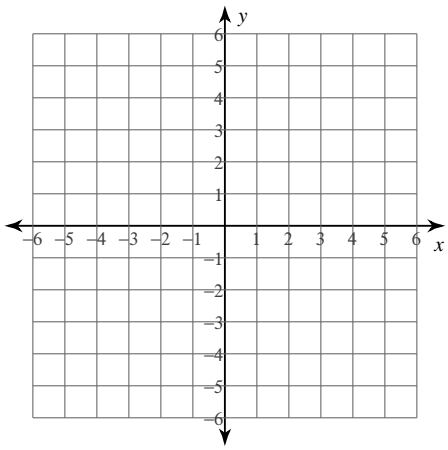
53) $6x + 5y = 10$



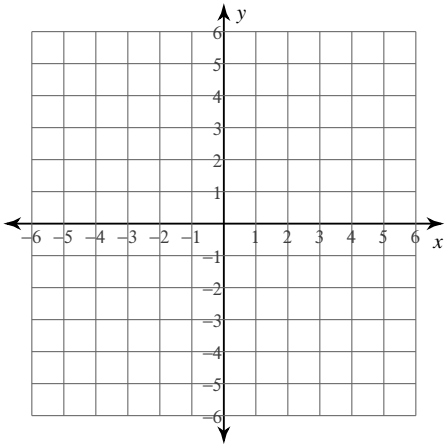
54) $2x + y = -3$



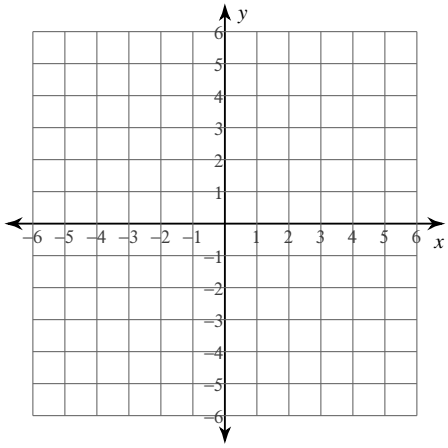
55) $4x - 3y = 3$



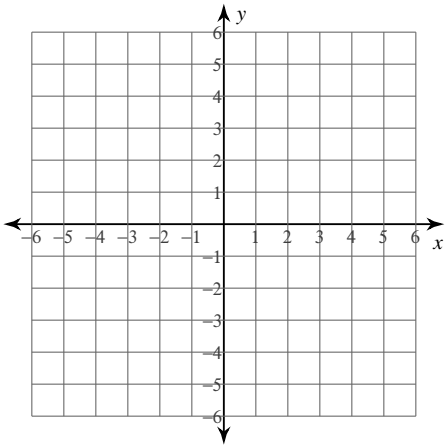
56) $3x + y = 3$



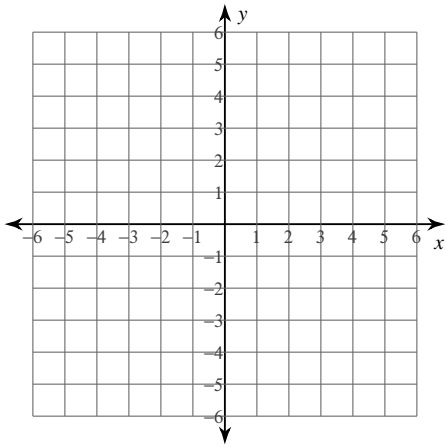
57) $x - y = 2$



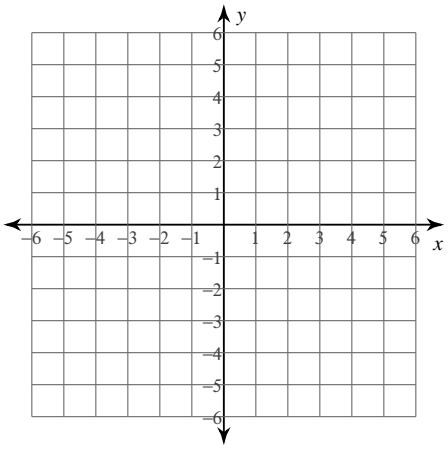
58) $x - 2y = 8$



59) $5x - 2y = 0$

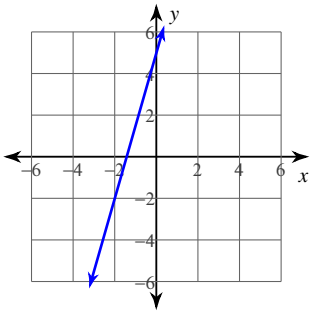


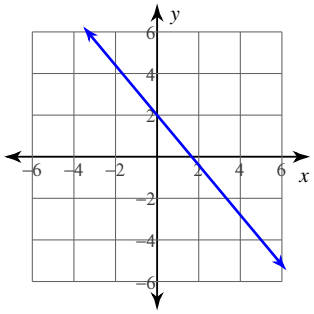
60) $7x - 3y = 6$

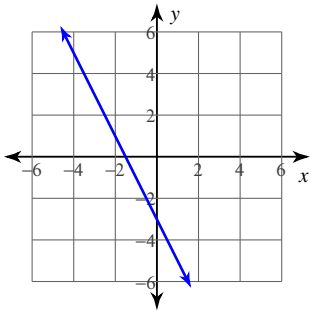


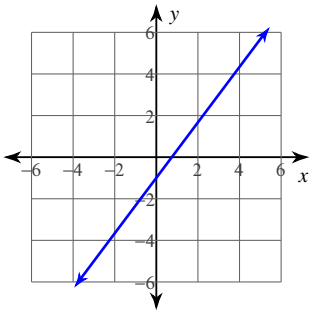
Answers to 14-10-01-8 -- Opportunity for more practice

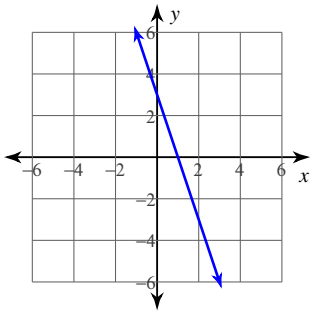
1) $2x + y = -6$
2) $x - y = -4$
3) $2x - y = 4$
4) $3x - 2y = -12$
5) $2x - y = -1$
6) $x + y = 1$
7) $9x + 5y = 20$
8) $x + 2y = 8$
9) $3x - 5y = -10$
10) $4x - 5y = -1$
11) $x - 2y = 3$
12) $3x + 2y = 2$
13) $7x + y = 25$
14) $4x - y = 4$
15) $2x + y = -1$
16) $3x + y = -2$
17) $2x + y = 4$
18) $8x - y = -5$
19) $2x - y = -2$
20) $2x + 5y = 15$
21) $x - 3y = -15$
22) $5x - 4y = 20$
23) $2x + y = 2$
24) $3x + 2y = -8$
25) $x - 3y = 3$
26) $x - 4y = 4$
27) $x + y = -2$
28) $5x + 4y = 0$
29) $x = -2$
30) $y = 0$
31) $7x + 2y = -8$
32) $5x - 2y = -4$
33) $x = -1$
34) $x - 2y = 7$
35) $2x + 5y = -16$
36) $x - 3y = -12$
37) $7x + 4y = 16$
38) $3x + 5y = -9$
39) $2x + y = 5$
40) $3x - y = -12$
41) $2x + 3y = 9$
42) $y = -5$
43) $y = -\frac{3}{4}x + 1$
44) $y = \frac{1}{2}x + 4$
45) $y = x + 1$
46) $y = \frac{3}{2}x + 1$
47) $y = -\frac{2}{3}x + \frac{7}{3}$
48) $y = -\frac{2}{5}x + \frac{2}{5}$
49) $y = -\frac{1}{2}x + 2$
50) $y = -x + 4$
51) $y = \frac{7}{3}x + 3$

52)


53)


54)


55)


56)


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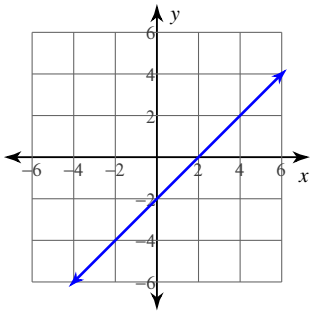

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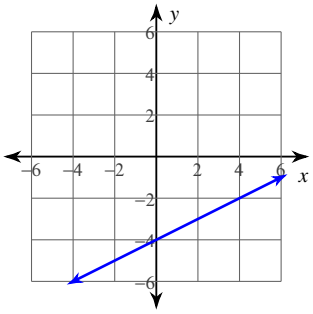

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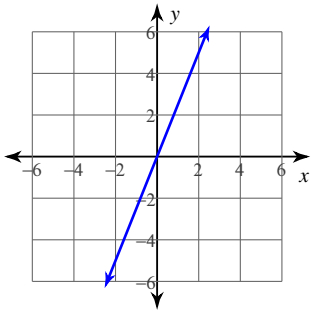

60)