

Chapter 4

Elementary Algebra, Norco Edition Answers to Odd Exercises

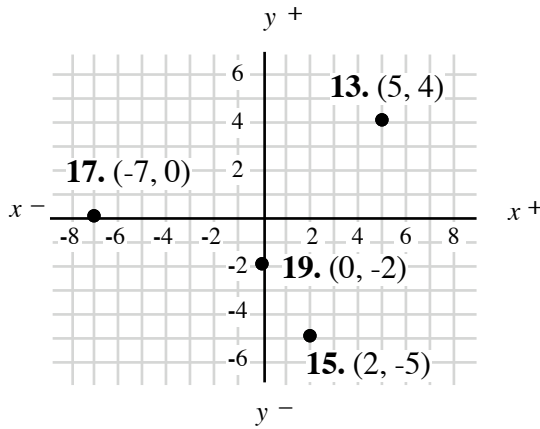
Section 4.1

5. $10 = 10$; Yes

7. $-10 \neq 10$; No

9. $0 \neq 5$; No

11. $-1 = -1$; Yes



21. (3, 3)

23. (-6, 5)

25. (-7, -3)

27. (4, -4)

29. Quadrant IV

31. Quadrant II

33. Quadrant III

35. Quadrant IV

37. Quadrant IV

39. Quadrant I

41. (0, 6) is on the positive y-axis

43. (3, 0) is on the positive x-axis

45. (0, -7) is on the negative y-axis

47. (0, 0) is the origin; it is on both the x-axis and the y-axis.

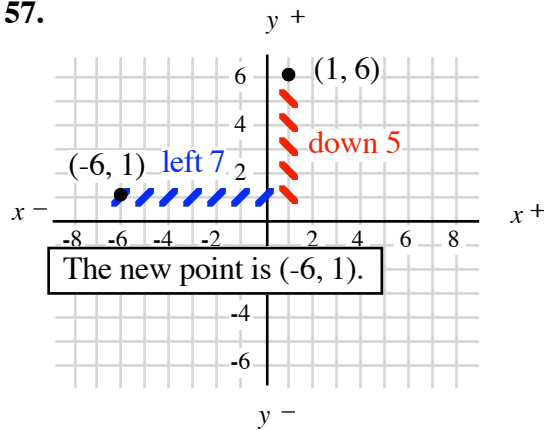
49. (-3, 0)

51. (2, 0)

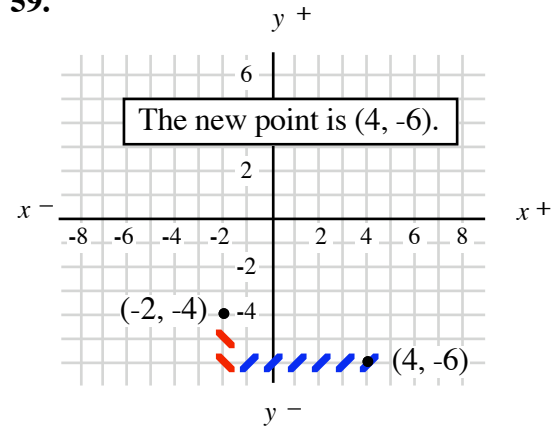
53. (0, -5)

55. (0, -2)

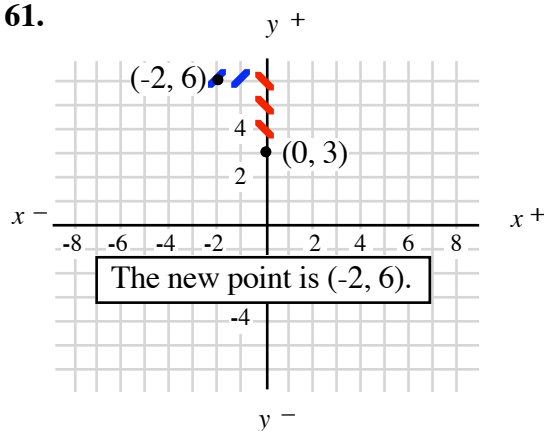
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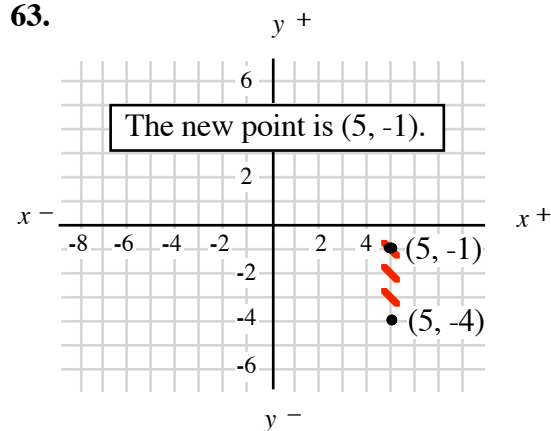
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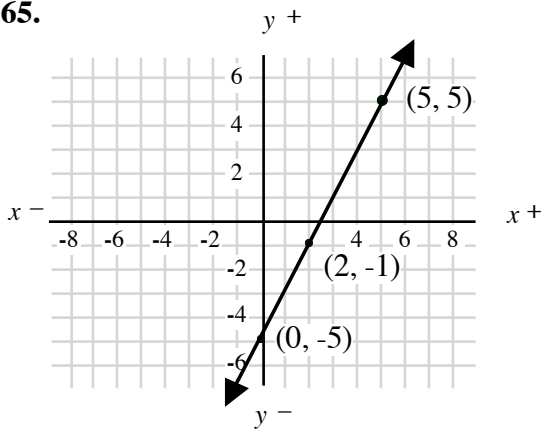
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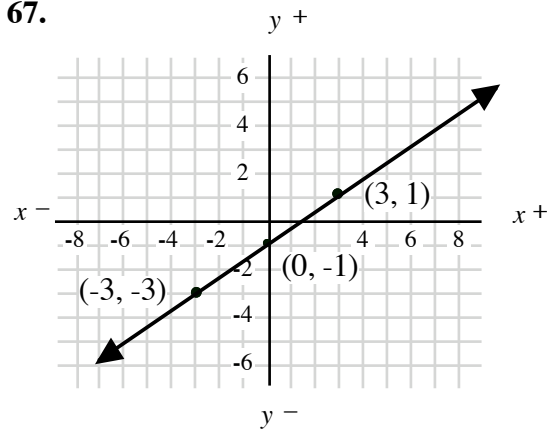
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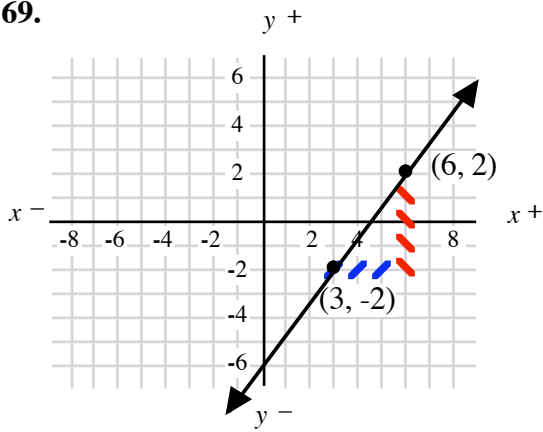
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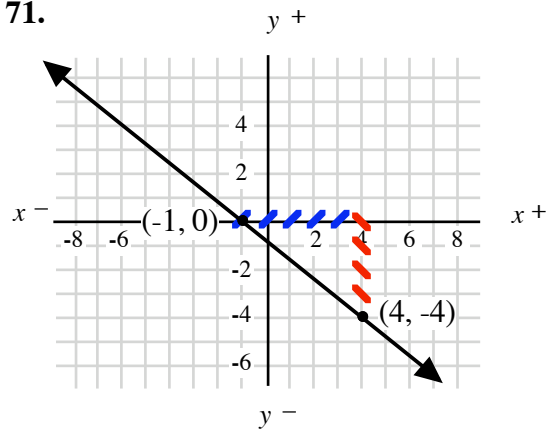
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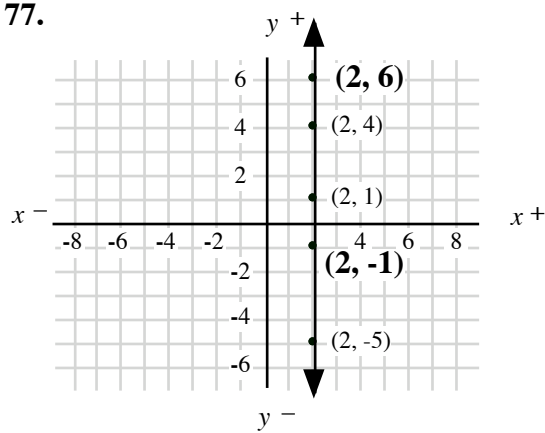
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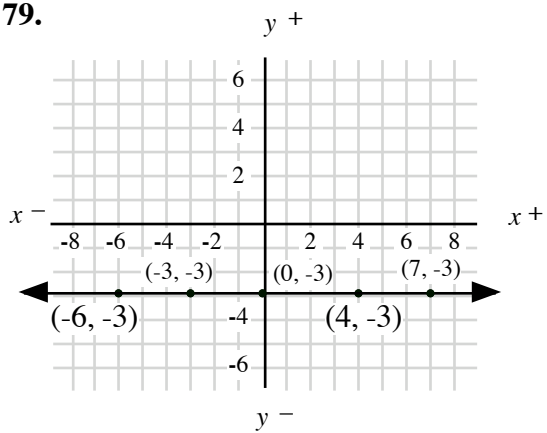
73. (1, 3), (0, 1), and (-2, -3)

75. (0, 4), (3, 3), and (-6, 6)

77.



79.

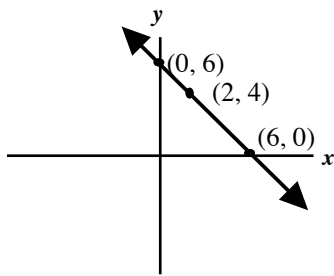


81. $4 \neq -4$; No

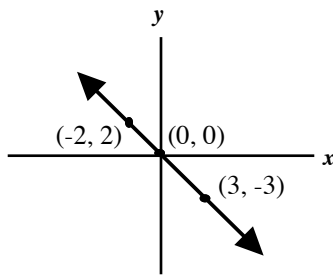
83. $6 = 6$; Yes

Section 4.2

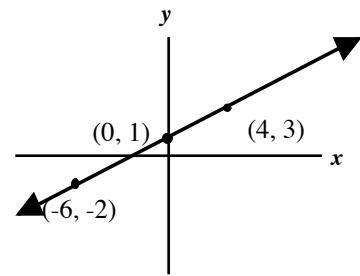
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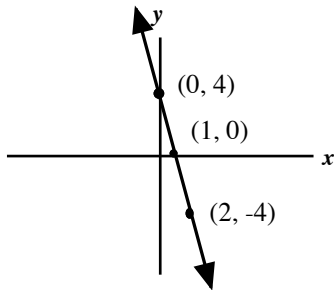
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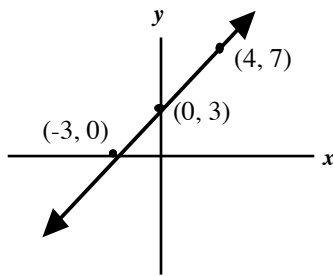
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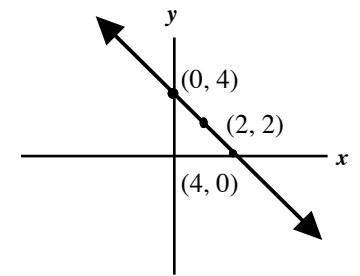
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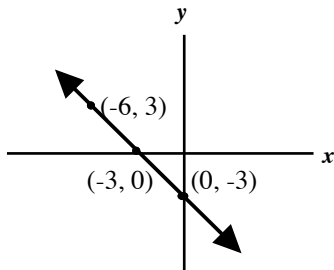
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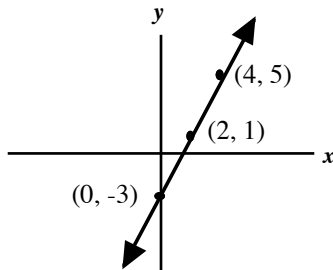
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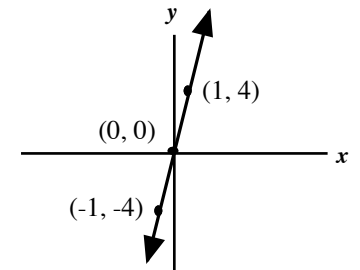
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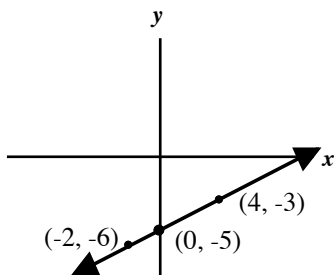
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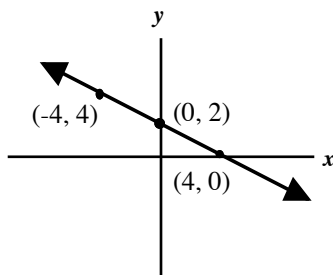
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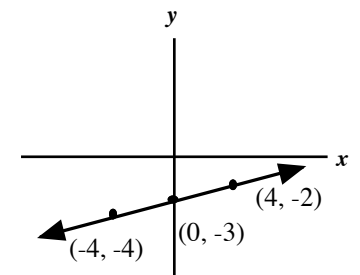
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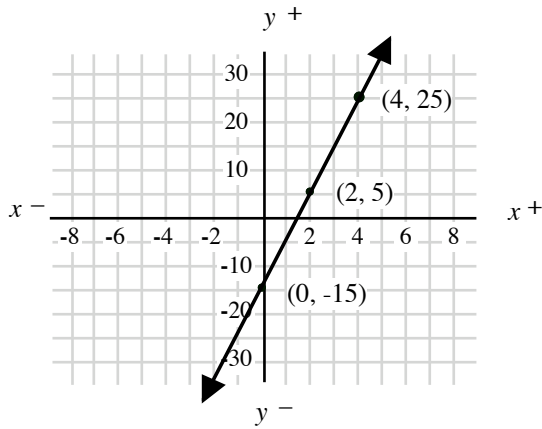
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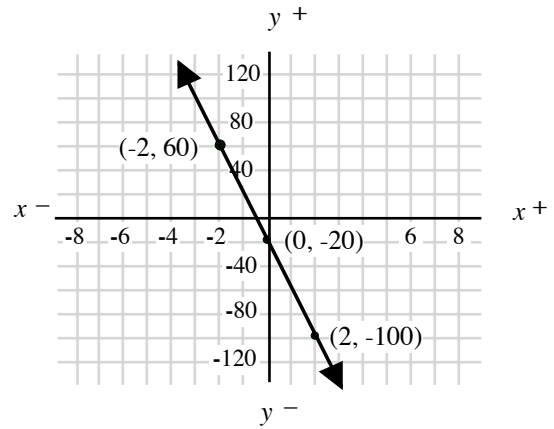
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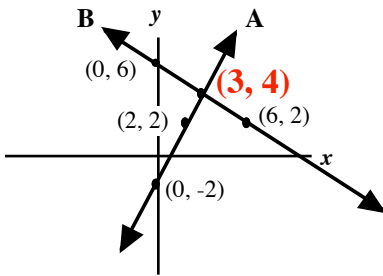
29.



31.



33. The lines cross at (3, 4):



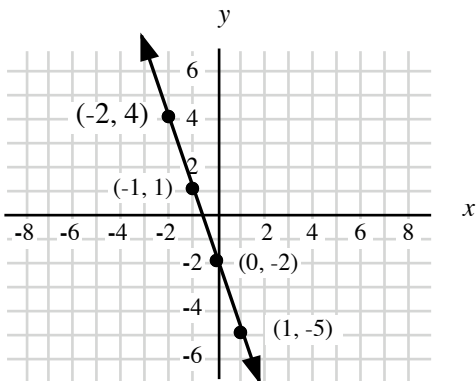
Section 4.3

5. The slope ratio of the ramp is $\frac{2}{21}$.

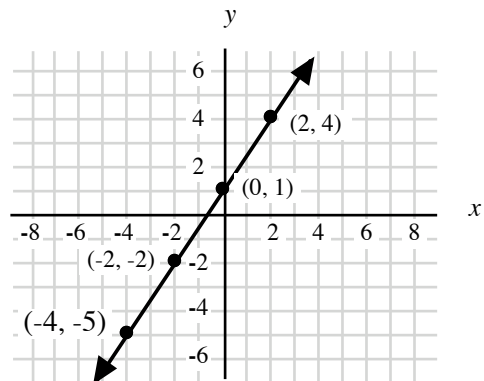
7. The slope ratio of the mountain is $\frac{9}{4}$.

Please note: Some points shown may be different from yours.

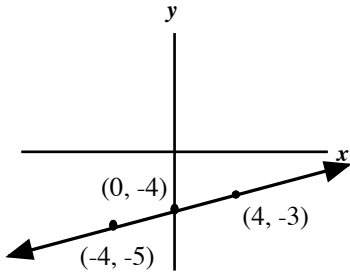
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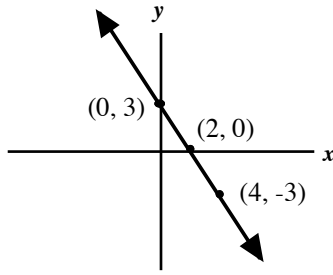
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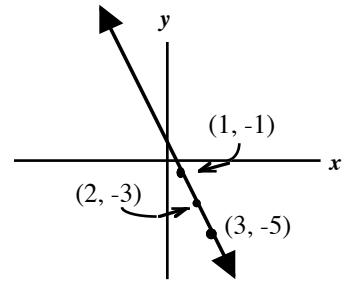
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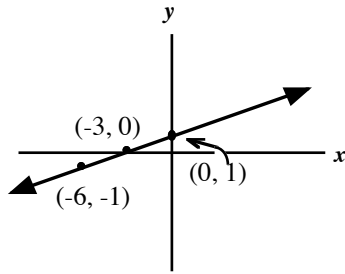
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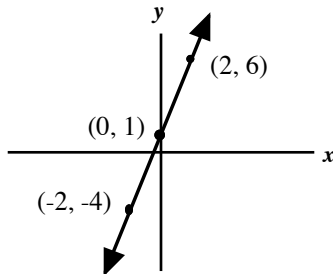
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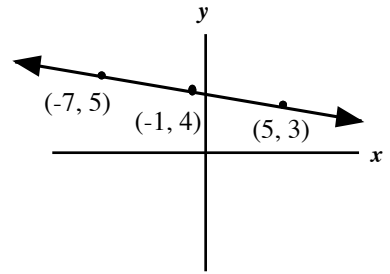
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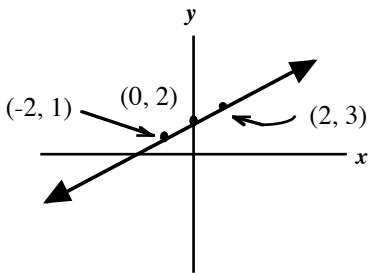
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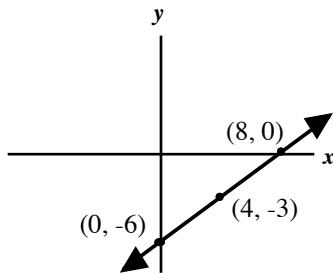
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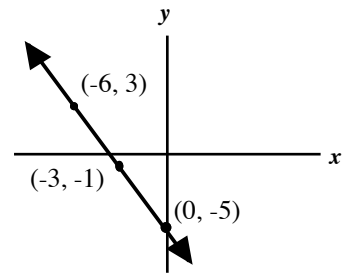
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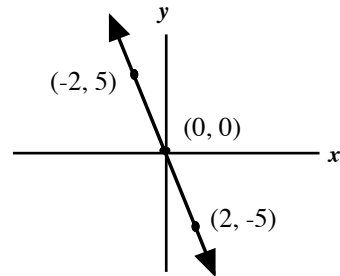
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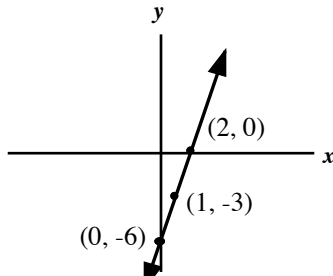
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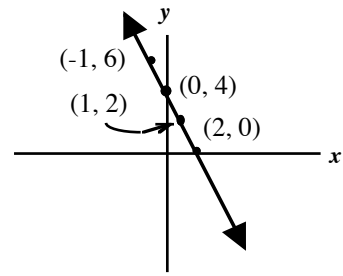
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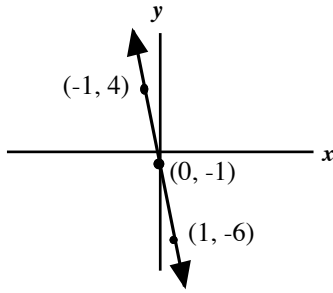
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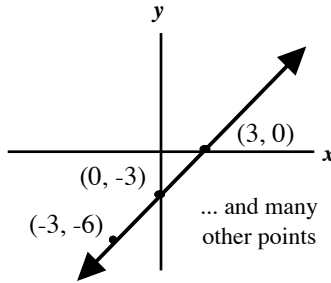
35.



37.



39.



41. The equation of the line is $y = -\frac{1}{3}x + 4$

43. The equation of the line is $y = 2x + 3$

Section 4.4

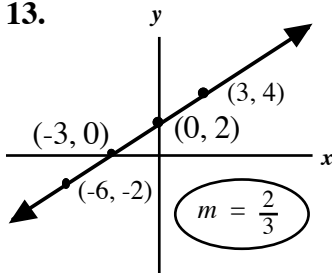
5. $m = \frac{3}{4}$

7. $m = \frac{5}{2}$

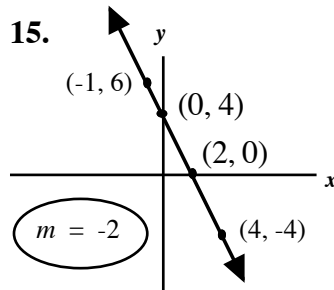
9. $m = -\frac{3}{5}$

11. $m = -\frac{1}{5}$

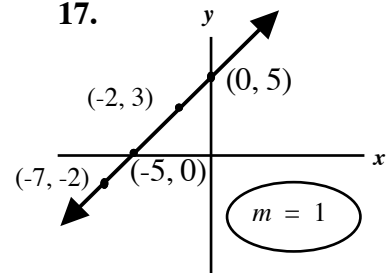
13.



15.



17.



19. $y = \frac{5}{3}x + 1$

21. $y = \frac{2}{7}x + 4$

23. $y = -\frac{3}{2}x - 2$

25. $y = -\frac{3}{4}x - 5$

27. $m = 1$

29. $m = 1$

31. $m = -2$

33. $m = -\frac{3}{2}$

35. $m = 2$

37. $m = \frac{1}{4}$

39. $m = \frac{1}{4}$

41. $m = 0$

43. $y = 3x + 7$

45. $y = -\frac{1}{2}x + 11$

47. $y = -2x - 8$

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

51. $y = -\frac{2}{5}x + 10$

53. $y = -\frac{3}{4}x - 15$

55. $y = -\frac{1}{3}x + 3$

57. $y = 2x$

Section 4.5

5. $y = 2x + 5$

11. $y = -x + 3$

17. $y = \frac{8}{3}x + 1$

23. $y = -\frac{4}{3}x - 5$

29. $y = -2x + 25$

35. $y = 0$

7. $y = x - 7$

13. $y = -3x + 5$

19. $y = \frac{9}{4}x + \frac{1}{2}$

25. $y = -\frac{3}{5}x + 4$

31. $y = -\frac{7}{4}x - \frac{1}{4}$

9. $y = \frac{1}{2}x - 5$

15. $y = -x - 5$

21. $y = -2x - 3$

27. $y = 3x - 2$

33. $y = 2$

Section 4.6

3. $2x + 3y = 15$

9. $x - y = 0$

15. $y = -4x + 2$; (0, 2) and $m = -4$

19. $y = \frac{2}{5}x - 3$; (0, -3) and $m = \frac{2}{5}$

23. x-int: (-10, 0); y-int: (0, -6)

27. x-int: (-8, 0); y-int: (0, 5)

5. $2x + y = 1$

11. $3x + 8y = 0$

17. $y = 2x + 5$; (0, 5) and $m = 2$

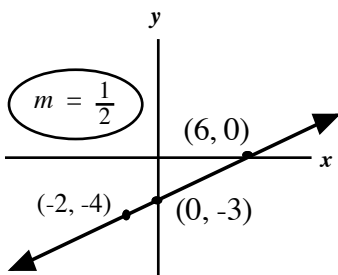
21. x-int: (2, 0); y-int: (0, 8)

25. x-int: (3, 0); y-int: (0, 10)

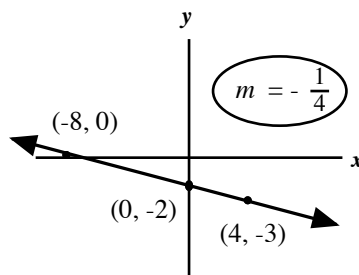
7. $5x + 3y = -3$

13. $8x - 6y = -1$

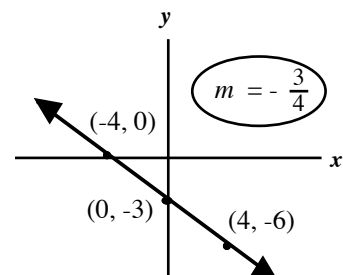
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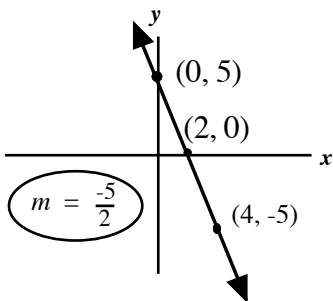
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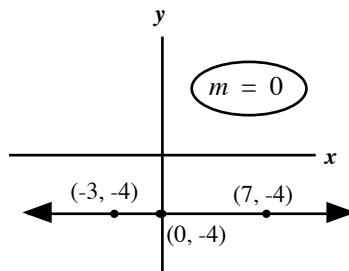
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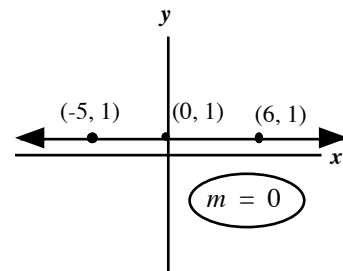
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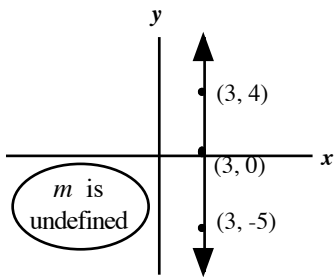
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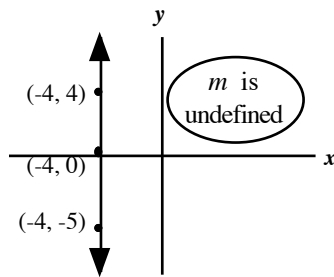
39.



41.



43.



45. $x = 6$

47. $y = -3$

49. $y = \frac{-A}{B}x + \frac{C}{B}; m = \frac{-A}{B}$

51. a) $(0, \frac{9}{10}), (\frac{9}{4}, 0), m = \frac{-2}{5}$

b) $(0, \frac{-5}{2}), (\frac{5}{3}, 0), m = \frac{3}{2}$

c) $(0, \frac{3}{5}), (\frac{-3}{2}, 0), m = \frac{2}{5}$