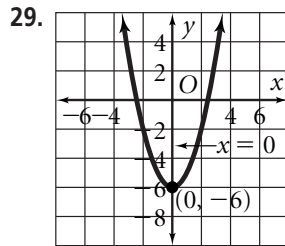
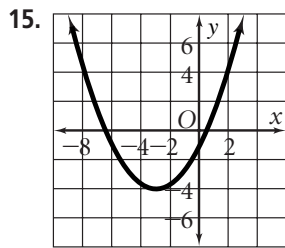
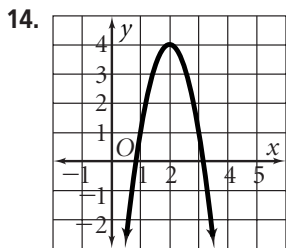
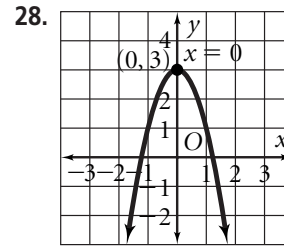
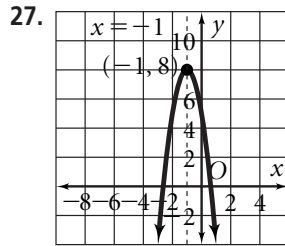
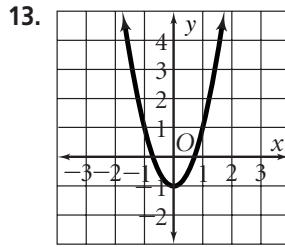
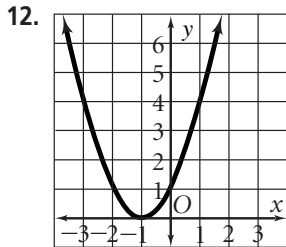
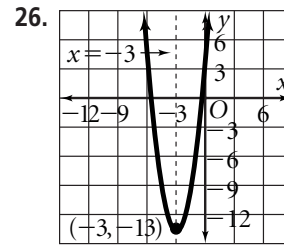
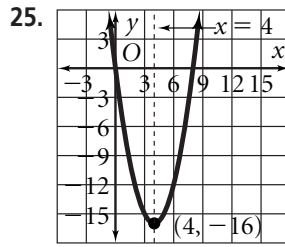
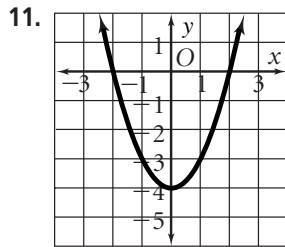
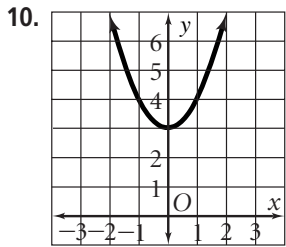
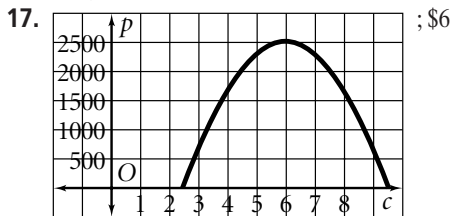


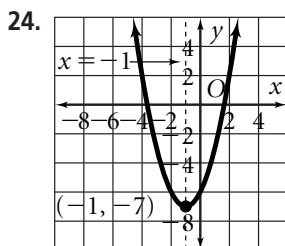
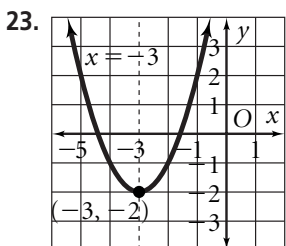
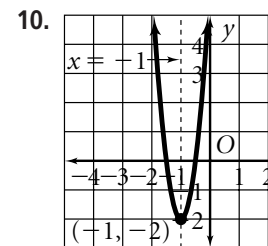
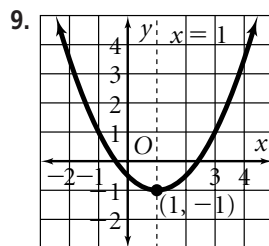
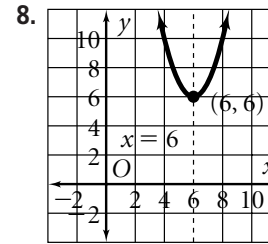
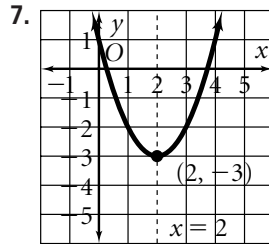
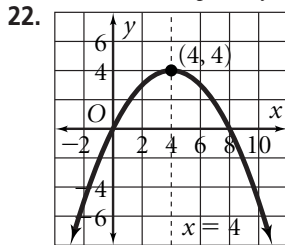
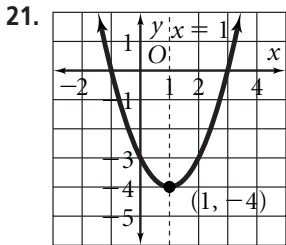
# Chapter 5 Answers (continued)



16. 1.2 s; 24 ft



18. \$3.25    19. 81.125 ft; 156.25 ft    20. 20 fixtures per day

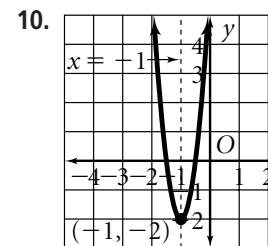
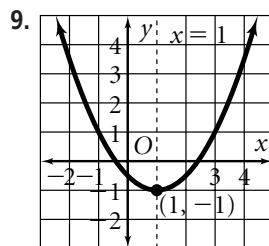
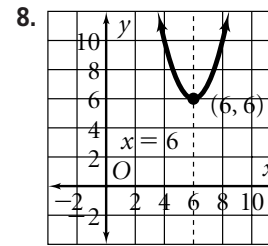
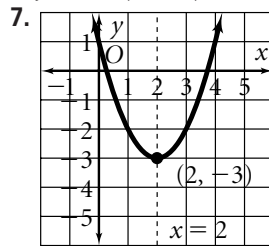


## Practice 5-3

1.  $y = x^2 - 5$     2.  $y = x^2 + 2$     3.  $y = (x - 2)^2$

4.  $y = -2x^2 + 4$     5.  $y = 2(x - 3)^2 + 2$

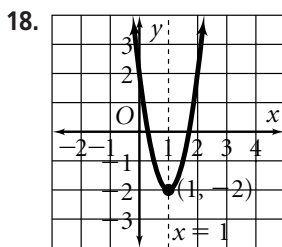
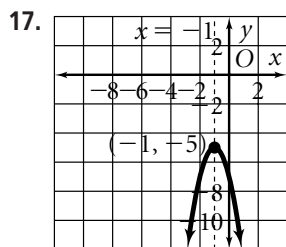
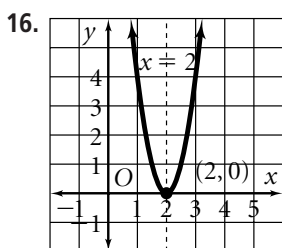
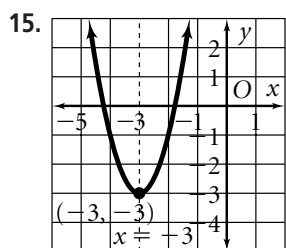
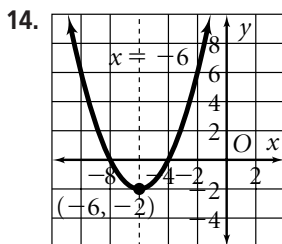
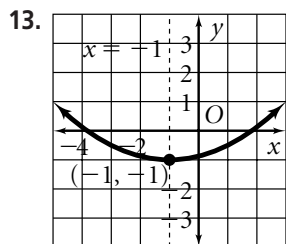
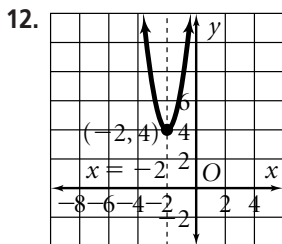
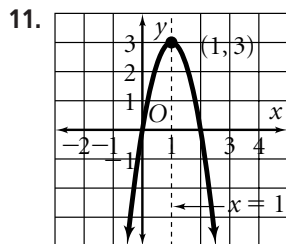
6.  $y = -2(x + 3)^2 + 5$



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# Chapter 5 Answers (continued)



19.  $y = (x + 2)^2 - 4$  20.  $y = 2(x + 2)^2 - 5$   
 21.  $y = -2(x + 2)^2 + 8$  22.  $y = -(x - 2)^2 + 8$   
 23.  $y = (x - 2)^2 - 8$  24.  $y = \left(x + \frac{5}{2}\right)^2 - \frac{25}{4}$   
 25.  $y = 2(x - 0)^2 - 6$  26.  $y = -3\left(x + \frac{1}{6}\right)^2 - \frac{95}{12}$   
 27.  $y = \left(x + \frac{7}{2}\right)^2 - \frac{45}{4}$  28.  $y = (x + 4)^2 - 13$   
 29.  $y = 2\left(x + \frac{3}{2}\right)^2 + \frac{11}{2}$  30.  $y = (x + 2)^2 - 7$   
 31. (2, -4); 8 32. (-6, 5); -7 33. (1, -1); 1  
 34. (-4, -3);  $\frac{23}{3}$  35. (1, 2); 3 36. (2, 4); -8 37. (5, 1); 101  
 38. (-5, -3); -53 39. (-2, 5); -15

## Practice 5-4

1.  $(x + 2)^2$  2.  $(x - 5)(x - 2)$  3.  $(x + 8)(x - 1)$   
 4.  $x(x - 6)$  5.  $(2x - 1)(x - 4)$  6.  $(x + 7)(x - 5)$   
 7.  $(x + 5)(x + 1)$  8.  $(x + 3)(x - 3)$  9.  $(x - 16)(x + 3)$

10.  $(x + 2)(x - 2)$  11.  $x(4x + 1)$  12.  $(x - 25)(x - 4)$   
 13.  $(x - 3)(x + 2)$  14.  $(3x + 1)(3x - 1)$  15.  $x(3x - 2)$   
 16.  $(x + 8)(x - 8)$  17.  $(x + 5)(x - 5)$   
 18.  $(x + 9)(x - 9)$  19.  $(x + 6)(x - 6)$   
 20.  $(x + 10)(x - 10)$  21.  $(x + 1)(x - 1)$   
 22.  $(2x + 1)(2x - 1)$  23.  $4(x + 3)(x - 3)$   
 24.  $(3x + 2)(3x - 2)$  25.  $(x - 8)(x + 1)$   
 26.  $(x + 9)(x + 4)$  27.  $(x - 3)(x - 2)$   
 28.  $(x + 4)(x + 1)$  29.  $(x - 22)(x + 1)$   
 30.  $(x + 5)(x + 8)$  31.  $(2x + 1)(x - 3)$   
 32.  $(x + 11)(x - 1)$  33.  $(x - 12)(x - 2)$   
 34.  $(x + 2)(5x - 6)$  35.  $(x + 1)(2x - 7)$   
 36.  $(x + 5)(2x + 3)$  37.  $(x - 3)(3x + 2)$   
 38.  $(x + 3)(3x + 7)$  39.  $(x + 8)(x - 3)$   
 40.  $(x + 36)(x - 2)$  41.  $x(x - 11)$  42.  $3x(x + 7)$   
 43.  $(x + 2)(x + 6)$  44.  $(x - 6)(x - 4)$   
 45.  $(x + 10)(x - 3)$  46.  $(x - 14)(x + 12)$   
 47.  $(x - 9)(x + 8)$  48.  $(2x + 5)(2x - 5)$   
 49.  $(x + 11)(x - 11)$  50.  $(x + 16)(x + 1)$   
 51.  $(5x - 1)(2x - 3)$  52.  $(2x + 3)(2x + 3)$   
 53.  $(2x - 5)(2x + 3)$  54.  $(3x + 2)(3x - 2)$   
 55.  $(x + 10)(x - 4)$  56.  $2(x + 2)(x - 2)$   
 57.  $(x + 11)(x + 7)$  58.  $2(x + 7)(x - 7)$   
 59.  $(x + 14)(x + 7)$  60.  $(x + 6)(x + 14)$   
 61.  $(3x + 2)(3x + 8)$  62.  $(2x + 3)(4x - 9)$   
 63.  $(x - 9)(x + 6)$  64.  $(x + 13)(x - 13)$   
 65.  $(5x + 3)(5x - 3)$  66.  $7(x^2 + 7)$  67.  $2(x - 7)(x + 2)$   
 68.  $(x + 6)(x + 2)$  69.  $(x + 5)(x - 7)$   
 70.  $(x + 9)(x - 7)$  71.  $(5x + 1)(4x - 3)$   
 72.  $(2x - 1)(6x + 5)$  73.  $(4x + 3)(x - 2)$   
 74.  $(4x - 3)(2x + 7)$  75.  $3(x + 7)(x - 8)$

## Practice 5-5

1. 20, -2 2.  $0, \frac{7}{2}$  3. 0, 3 4. 7, -1 5. 7, -7 6. -1  
 7. 1, -1 8. 4, -1 9. -4, -5 10. -9,  $-\frac{1}{6}$  11. 1, -11  
 12.  $0, \frac{3}{2}$  13.  $2, -\frac{5}{2}$  14.  $1, -\frac{1}{4}$  15.  $1, \frac{1}{5}$  16. -1,  $-\frac{1}{3}$   
 17.  $2, -\frac{1}{2}$  18.  $\frac{1}{2}, \frac{1}{3}$  19. -1,  $\frac{1}{2}$  20.  $-2, \frac{1}{3}$  21. 4, 2  
 22. -6, -1 23. 0, -3 24.  $\frac{1}{2}, 5$  25.  $2, \frac{1}{3}$  26.  $\frac{1}{2}, 1$   
 27.  $2, -\frac{3}{2}$  28. 12, -12 29.  $\frac{1}{2}, 1$  30. -1,  $-\frac{2}{5}$  31. -1,  $\frac{1}{7}$   
 32. 1, 2 33.  $1, \frac{1}{11}$  34. -1,  $-\frac{1}{7}$  35. -9, -1  
 36. 6, 24, -2, 24 37. 7, 1 38. 4, -4 39. -2, -4 40. 3, 1  
 41. -2,  $-\frac{3}{2}$  42.  $\frac{1}{2}, \frac{2}{3}$  43.  $-\frac{21}{4}, -\frac{35}{4}$  44.  $1, -\frac{1}{9}$   
 45.  $-\frac{1}{2}, -\frac{1}{5}$  46. -2,  $-\frac{1}{4}$  47.  $2, \frac{2}{3}$  48. -1,  $-\frac{5}{4}$   
 49. -1,  $-\frac{1}{9}$  50. -4,  $-\frac{1}{2}$  51. -2, -1 52. -1,  $\frac{1}{11}$   
 53.  $\frac{1}{2}, -\frac{1}{2}$  54. 0, 2 55.  $\frac{3}{5}, -\frac{3}{5}$  56.  $\frac{1}{2}, -6$  57.  $\frac{1}{2}, \frac{1}{4}$   
 58. -11, -1 59.  $2, \frac{1}{6}$  60. 11, -11 61. 3,  $-\frac{1}{4}$  62.  $-\frac{1}{2}, -\frac{1}{4}$