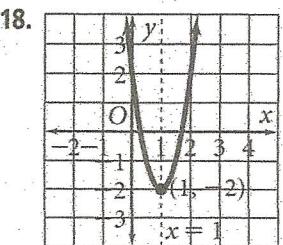
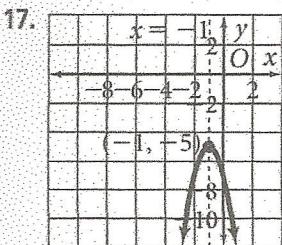
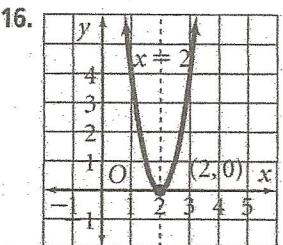
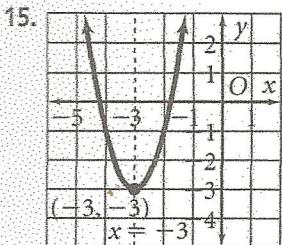
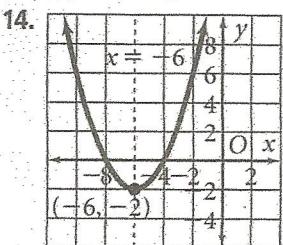
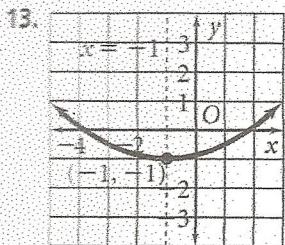
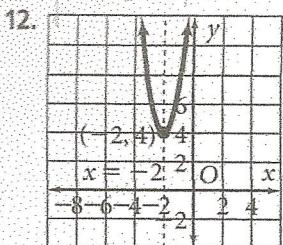
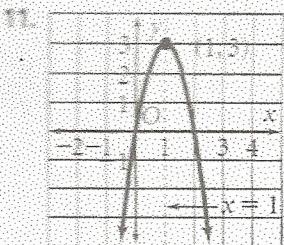


Chapter 5 Answers (continued)



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. $-\frac{1}{2}, -\frac{1}{4}$