Exercise Set 3.1

22. $x^3 - x^2 + x - 1 + \dfrac{2}{x+1}$

38. -705

64.   a. 91 cans;   b. 650 cans

68. $(x + 5)$ in.

Exercise Set 3.2

14. $a < 0$

68.   a. $264,000;   b. 5657 games

Exercise Set 3.3

58. $-2, -1, \frac{1}{2}, 1$

72.   3 by 7 by 6 in.

76. $293,000

Exercise Set 3.4

36. $-\dfrac{1}{2}, \dfrac{4}{3}, \dfrac{7}{2}$

50. $P(x) = 20x^4 - x^3 + 19x^2 - x - 1$

Exercise Set 3.5

14. $x = 2, x = -2$

18. $x = 3, x = -3$

36. $x = -2, y = 0$

48. $x = -1, x = 1, y = 2$

78.   graph not available