Chapter 1

Review of Prerequisite Skills, pp. 2–3

1. a. -3 c. 4 e. -4.1
   b. -2 d. -4 f. $-\frac{1}{2}$

2. a. $y = 4x - 2$
   b. $y = -2x + 5$
   c. $y = \frac{6}{5}(x + 1) + 6$
   d. $x + y - 2 = 0$
   e. $x = -3$
   f. $y = 5$

3. a. -1 c. -9
   b. 0 d. 144

4. a. $-\frac{5}{52}$ c. 0
   b. $\frac{3}{13}$ d. $\frac{5}{52}$

5. a. 6 c. 9
   b. $\sqrt{5}$ d. $\sqrt{6}$

6. a. $-\frac{1}{2}$ c. 5 e. 10^6
   b. -1 d. 1

7. a. $x^2 - 4x - 12$
   b. $15 + 17x - 4x^2$
   c. $-x^2 - 7x$
   d. $-x^2 + x + 7$
   e. $x^3 + 6x^2 + 12x + 8$
   f. $729x^3 - 1215x^2 + 675x - 125$

8. a. $x(x + 1)(x - 1)$
   b. $(x + 3)(x - 2)$
   c. $(2x - 3)(x - 2)$
   d. $x(x + 1)(x + 1)$
   e. $(3x - 4)(9x^2 + 12x + 16)$
   f. $(x - 1)(2x - 3)(x + 2)$

9. a. $\{x \in \mathbb{R} \mid x \geq -5\}$
   b. $\{x \in \mathbb{R}\}$
   c. $\{x \in \mathbb{R} \mid x \neq 1\}$
   d. $\{x \in \mathbb{R} \mid x \neq 0\}$
   e. $\left\{x \in \mathbb{R} \mid x \neq -\frac{1}{2}, 3\right\}$
   f. $\{x \in \mathbb{R} \mid x \neq -5, -2, 1\}$

10. a. 20.1 m/s b. 10.3 m/s

11. a. -20 L/min
    b. about -13.33 L/min
    c. The volume of water in the hot tub is always decreasing during that time period, a negative change.
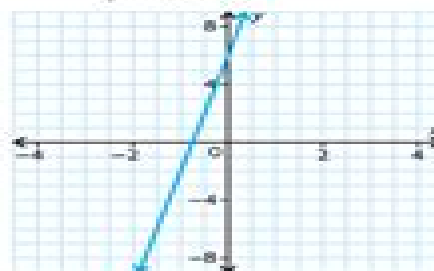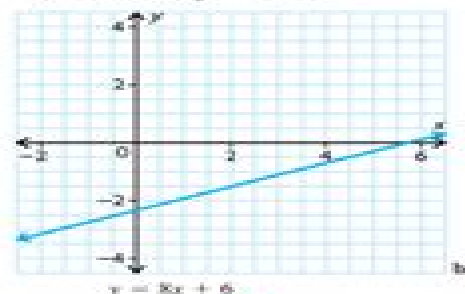
12. a. b.
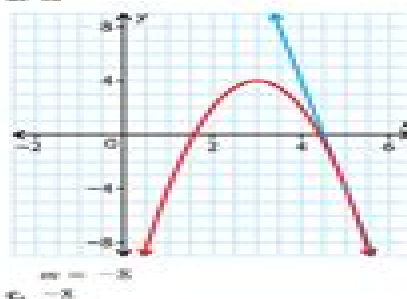
   $m = -8$
   c. -8

Section 1.1, p. 9

1. a. $2\sqrt{3} + 4$ d. $3\sqrt{3} - \sqrt{2}$
   b. $\sqrt{3} - \sqrt{2}$ e. $\sqrt{2} + \sqrt{5}$
   c. $-2\sqrt{3} + \sqrt{2}$ f. $-\sqrt{5} - 2\sqrt{2}$

2. a. $\frac{\sqrt{6} + \sqrt{10}}{2}$ c. $\frac{4 + \sqrt{6}}{2}$
   b. $\sqrt{6} - 3$ d. $\frac{3\sqrt{10} - 2}{4}$

3. a. $\sqrt{5} + \sqrt{2}$ d. $4 - 2\sqrt{5}$
   b. $10 - 3\sqrt{10}$ e. $\frac{11\sqrt{6} - 16}{47}$
   c. $5 - 2\sqrt{6}$ f. $\frac{35 - 12\sqrt{6}}{19}$

4. a. $\frac{1}{\sqrt{5} + 1}$
   b. $\frac{-7}{2 + 3\sqrt{2}}$
   c. $\frac{1}{12 - 5\sqrt{5}}$

5. a. $8\sqrt{10} + 24$
   b. $8\sqrt{10} + 24$
   c. The expressions are equivalent. The radicals in the denominator of part a. have been simplified in part b.

6. a. $\sqrt{6} + 2$
   b. $\frac{9\sqrt{2} + 2\sqrt{3}}{25}$
   c. $2\sqrt{2} + \sqrt{6}$
   d. $\frac{12 + 5\sqrt{6}}{2}$

   e. $\frac{12\sqrt{15} + 15\sqrt{10}}{2}$
   f. $5 + 2\sqrt{6}$

7. a. $\frac{1}{\sqrt{a} + 2}$
   b. $\frac{1}{\sqrt{x + 4} + 2}$
   c. $\frac{1}{\sqrt{x + h} + \sqrt{x}}$

Section 1.2, pp. 18–21

1. a. 3 b. $\frac{5}{3}$ c. $-\frac{1}{3}$

2. a. $\frac{1}{3}$ b. $\frac{7}{13}$

3. a. $7x - 17y - 40 = 0$

$y = 8x + 6$ b.

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Andy Martin

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