

CHAPTER 1

Introduction to Calculus

Review of Prerequisite Skills, pp. 2–3

$$1. \text{ a. } m = \frac{-7 - 5}{6 - 2}$$

$$= -3$$

$$\text{b. } m = \frac{4 - (-4)}{-1 - 3}$$

$$= -2$$

$$\text{c. } m = \frac{4 - 0}{1 - 0}$$

$$= 4$$

$$\text{d. } m = \frac{4 - 0}{-1 - 0}$$

$$= -4$$

$$\text{e. } m = \frac{4 - 4.41}{-2 - (-2.1)}$$

$$= -4.1$$

$$\text{f. } m = \frac{-\frac{1}{4} - \frac{1}{4}}{\frac{1}{4} - \frac{1}{4}}$$

$$= -\frac{2}{4}$$

$$= -\frac{1}{2}$$

2. a. Substitute the given slope and y-intercept into $y = mx + b$.

$$y = 4x - 2$$

b. Substitute the given slope and y-intercept into $y = mx + b$.

$$y = -2x + 5$$

c. The slope of the line is

$$m = \frac{12 - 6}{4 - (-1)}$$

$$= \frac{6}{5}$$

The equation of the line is in the form

$$y - y_1 = m(x - x_1). \text{ The point is } (-1, 6) \text{ and } m = \frac{6}{5}.$$

$$\text{The equation of the line is } y - 6 = \frac{6}{5}(x + 1) \text{ or } y = \frac{6}{5}(x + 1) + 6.$$

$$\text{d. } m = \frac{8 - 4}{-6 - (-2)}$$

$$= -1$$

$$y - 4 = -1(x - (-2))$$

$$y - 4 = -x - 2$$

$$x + y - 2 = 0$$

$$\text{e. } x = -3$$

$$\text{f. } y = 5$$

$$3. \text{ a. } f(2) = -6 + 5$$

$$= -1$$

$$\text{b. } f(2) = (8 - 2)(6 - 6)$$

$$= 0$$

$$\text{c. } f(2) = -3(4) + 2(2) - 1$$

$$= -9$$

$$\text{d. } f(2) = (10 + 2)^2$$

$$= 144$$

$$4. \text{ a. } f(-10) = \frac{-10}{100 + 4}$$

$$= -\frac{5}{52}$$

$$\text{b. } f(-3) = \frac{-3}{9 + 4}$$

$$= -\frac{3}{13}$$

$$\text{c. } f(0) = \frac{0}{0 + 4}$$

$$= 0$$

$$\text{d. } f(10) = \frac{10}{100 + 4}$$

$$= \frac{5}{52}$$

$$5. f(x) = \begin{cases} \sqrt{3 - x}, & \text{if } x < 0 \\ \sqrt{3 + x}, & \text{if } x \geq 0 \end{cases}$$

$$\text{a. } f(-33) = 6$$

$$\text{b. } f(0) = \sqrt{3}$$

$$\text{c. } f(78) = 9$$

$$\text{d. } f(3) = \sqrt{6}$$

$$6. x(t) = \begin{cases} \frac{t}{t}, & \text{if } -3 < t < 0 \\ 5, & \text{if } t = 0 \\ t^2, & \text{if } t > 0 \end{cases}$$

$$\text{a. } x(-2) = -\frac{1}{2}$$

$$\text{b. } x(-1) = -1$$

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