# CHAPTER 1

# Introduction to Calculus

#### Review of Prerequisite Skills, pp. 2-3

La. 
$$m = \frac{-7 - 5}{6 - 2}$$
  
= -3  
b.  $m = \frac{4 - (-4)}{6 - 2}$ 

$$b_{r} m = \frac{4 - (-4)}{-1 - 3}$$
$$= -2$$

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

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

e. 
$$m = \frac{4 - 4.41}{-2 - (-2.1)}$$
  
=  $-4.1$ 

f. 
$$m = \frac{-\frac{1}{4} - \frac{1}{4}}{\frac{-\frac{2}{4}}{1}}$$
  
=  $\frac{-\frac{2}{4}}{\frac{1}{1}}$ 

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

$$y = 4x - 2$$

b. Substitute the given slope and y-intercept into W - WALK & BU

$$y = -2x + 5$$

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

 $y - y_1 = m(x - x_1)$ . The point is (-1, 6) and

The equation of the line is  $y = 6 = \frac{5}{3}(x + 1)$  or y = 2(x + 1) + 6.

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

$$y - 4 = -1(x - (-2))$$
  
 $y - 4 = -x - 2$   
 $x + y - 2 = 0$   
 $e, x = -3$   
 $f, y = 5$   
 $3, u, f(2) = -6 + 5$ 

$$b_{r}f(2) = (8-2)(6-6)$$

$$= 0$$

$$c. f(2) = -3(4) + 2(2) - 1$$

4. a. 
$$f(-10) = \frac{-10}{100 + 4}$$
  
=  $-\frac{5}{52}$ 

$$b. f(-3) = \frac{-3}{9+4} \\ = -\frac{3}{13}$$

$$\mathbf{c}_* f(0) = \frac{0}{0+4}$$

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

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

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

$$a. f(-33) = 6$$

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

$$e_* f(78) = 9$$

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

6. 
$$s(t) = \begin{cases} \frac{1}{t}, & \text{if } -3 < t < 0 \\ 5, & \text{if } t = 0 \\ t^3, & \text{if } t > 0 \end{cases}$$
a.  $s(-2) = -\frac{1}{2}$ 

$$\mathbf{a} \cdot s(-2) = -\frac{1}{2}$$

$$b, s(-1) = -1$$

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