

CHAPTER 1

Introduction to Calculus

Review of Prerequisite Skills, pp. 2–3

1. a. $m = \frac{-7 - 5}{6 - 2}$
 $= -3$

b. $m = \frac{4 - (-4)}{-1 - 3}$
 $= -2$

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

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

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

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

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

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

d. $m = \frac{8 - 4}{-6 - (-2)} = -1$

$$\begin{aligned} y - 4 &= -1(x - (-2)) \\ y - 4 &= -x - 2 \end{aligned}$$

$$x + y - 2 = 0$$

e. $x = -3$

f. $y = 5$

3. a. $f(2) = -6 + 3$
 $= -3$

b. $f(2) = (8 - 2)(6 - 6)$
 $= 0$

c. $f(2) = -3(4) + 2(2) = 1$
 $= -9$

d. $f(2) = (10 + 2)^2$
 $= 144$

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

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

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

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

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

a. $f(-33) = 6$

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

c. $f(78) = 9$

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

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

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

b. $x(-1) = -1$

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Calculus Maria Torres,Athabasca University,2008 Catalog and Announcements Wayne University,1942 *An Elemenatary Treatise on Fourier's Series, and Spherical, Cylindrical, and Ellipsoidal Harmonics, with Applications to Problems in Mathematical Physics* William Elwood Byerly,1893

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