### Precalculus Functions and Graphs 13th Edition Swokowski Test Bank

 $Full\ Download: https://alibabadownload.com/product/precalculus-functions-and-graphs-13th-edition-swokowski-test-bank/product/precalculus-functions-and-graphs-13th-edition-swokowski-test-bank/product/precalculus-functions-and-graphs-13th-edition-swokowski-test-bank/product/precalculus-functions-and-graphs-13th-edition-swokowski-test-bank/product/precalculus-functions-and-graphs-13th-edition-swokowski-test-bank/product/precalculus-functions-and-graphs-13th-edition-swokowski-test-bank/product/precalculus-functions-and-graphs-13th-edition-swokowski-test-bank/product/precalculus-functions-and-graphs-13th-edition-swokowski-test-bank/product/precalculus-functions-and-graphs-13th-edition-swokowski-test-bank/product/precalculus-functions-and-graphs-13th-edition-swokowski-test-bank/product/precalculus-function-graphs-13th-edition-graphs-13th$ 

Name: Class: Date:

# Chapter 2

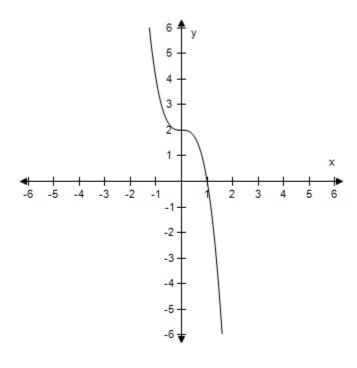
1. A roof has a rise of 5 feet for every horizontal change of 7 feet (see figure). Find the inclination of the roof. Round your answers to one decimal place.



$$a = 5, b = 7$$

2. Graphically estimate the *x*- and *y*-intercepts of the graph.

$$y = 2 - 2x^3$$



3. The parent function  $f(x) = \sqrt{x}$  is related to g. Describe the sequence of transformations from f to g.

$$g(x) = \sqrt{x-3}$$

# Chapter 2

4. From the graph of the quadratic function  $f(x) = -x^2 - 4x - 9$ , determine the equation of the axis of symmetry.

5. Find the distance between the point and the line. Round your answer to four decimal places.

Point Line

$$(5, 6)$$
  $7x + y = 1$ 

6. Write an equation for the function that is described by the following characteristics.

The shape of  $f(x) = x^2$ , but moved eight units down, two units to the left, and then reflected in the x-axis.

7. Find the inclination  $\Theta$  (in degrees) of the line with a slope of m. Round your answer to one decimal places.

m = 0.6666666667

8. Find all real value of x such that f(x) = 0.

$$f(x) = \frac{8x+3}{5}$$

- 9. Evaluate g(s+10) if g(y) = 11-4y.
- 10. Use algebraic tests to check the following for symmetry with respect to the axes and the origin.

$$10x + 4y^8 = 0$$

11. Select the graph of g.

$$g(x) = 5(x-4)^3$$

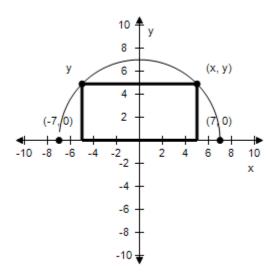
12. Find the value(s) of x for which f(x) = g(x).

$$f(x) = x^2 + 4x - 26$$
  $g(x) = 7x - 8$ 

13. A rectangle is bounded by the x-axis and the semicircle  $y = \sqrt{49 - x^2}$  (see figure). Select the area A of the rectangle as a function of x, and determine the domain of the function.

| Name: | Class: | Date: |
|-------|--------|-------|
|       |        |       |

# Chapter 2



14. Determine the quadrant(s) in which (x, y) is located so that the condition(s) is (are) satisfied.

x > 3 and y < 0

15. Find the angle  $\Theta$  (in radians and degrees) between the lines. Round your answer to four decimal places for radians and round your answer to one decimal places for degree.

$$x - y = 10$$

$$3x - 2y = 1$$

#### Date:

### Chapter 2

#### **Answer Key**

2. *x*-intercept: (1, 0)

y-intercept: (0, 2)

3. Horizontal shift three units to the right.

$$_{4.} x = -2$$

$$_{5.}$$
  $d \approx 5.7540$ 

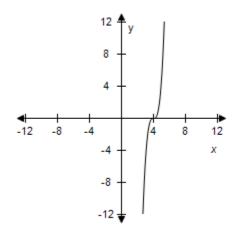
$$6. g(x) = 8 - (x+2)^2$$

8. 
$$x = \frac{3}{8}$$

$$g(s+10) = -29-4s$$

10. Symmetric with respect to the *x*-axis.

11.



12. 
$$x = -3$$
, 6

13. 
$$A(x) = 2|x|\sqrt{49 - x^2}, -7 \le x \le 7$$

14. Quadrant IV

$$_{15}$$
.  $\Theta \approx 0.0588 \text{ radians} \approx 3.4$ °

| <b>Precalculus Functions and Graphs</b> | 13th Edition Swokowski Test Bank               |                                      |
|---|--|--------------------------------------|
| Full Download: https://alibabadownload  | oad.com/product/precalculus-functions-and-grap | hs-13th-edition-swokowski-test-bank/ |
| Name:                                   | Class:   | Date:                                |
| Chapter 2                               |  |                                      |
|   |  |                                      |