Unit 5: Functions

PRACTICE

Name: _____ Date: _____

Show your work where needed and write your final answer on the line. Use exact values (fractions, coordinate pairs) unless told otherwise.

1. Given f(x) = 3x - 7, find f(4).

Answer: _____

2. Given g(x) = x^2 - 2x + 1, find g(-3).

Answer: _____

3. Given f(x) = 5x + 2, find the value of x for which f(x) = 27.

Answer: _____

4. The function h is defined by h(x) = -2x + 9. Find h(0).

Answer: _____

5. For f(x) = (x + 6)/2, find f(10).

Answer: _____

6. A function is given by the set of ordered pairs {(1, 4), (2, 7), (3, 10), (4, 13)}. What is f(3)?

Answer: _____

7. For the function in the previous set {(1, 4), (2, 7), (3, 10), (4, 13)}, what is the range? List the values in increasing order separated by commas.

Answer: _____

8. Given f(x) = 4x - 1, evaluate f(2) + f(3).

Answer: _____

9. The graph of a line passes through (0, -3) and has slope 2. Writing it as f(x) = 2x - 3, find f(5).

Answer: _____

10. Given f(x) = x^2, find f(6) - f(4).

Answer: _____

11. The domain of f(x) = sqrt(x - 5) is all x greater than or equal to a. What is the value of a?

Answer: _____

12. Given f(x) = 8 - x, for what value of x does f(x) = x? (Answer with the number.)

Answer: _____