

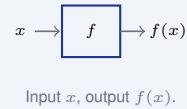
Function Notation

Name: _____	Date: _____	Score: _____ / 18
-------------	-------------	-------------------

Quick Review and Helpful Hints

$f(x)$ means “the value of the function f at x .” To *evaluate*, substitute the given number everywhere you see x and simplify. To *solve* $f(x) = k$, set the rule equal to k and solve for x . The letter (like f, g, h) is just a name.

▷ **Example:** Given $f(x) = 4x - 9$, find $f(5)$. **Work:** Substitute 5 for x : $f(5) = 4(5) - 9 = 20 - 9$.
 ★ **Answer:** 11



◆ **Practice Problems**

Evaluate or solve as directed.

- | | |
|---|--|
| <p>1. $f(x) = 4x - 9$; $f(5) =$ _____</p> <p>2. $g(x) = x^2 + 2$; $g(-3) =$ _____</p> <p>3. $h(x) = -2x + 7$; $h(0) =$ _____</p> <p>4. $f(x) = 3x^2 - x$; $f(2) =$ _____</p> <p>5. $p(x) = \frac{x+6}{2}$; $p(8) =$ _____</p> <p>6. $g(x) = 7 - 3x$; $g(-4) =$ _____</p> <p>7. $f(x) = 2x + 5$; $f(x) = 17$, $x =$ _____</p> | <p>8. $g(x) = x^2 - 1$; $g(x) = 24$, $x =$ _____</p> <p>9. $h(x) = -x + 10$; $h(x) = 3$, $x =$ _____</p> <p>10. $f(x) = 6x$; $f(x) = 42$, $x =$ _____</p> <p>11. $f(x) = x^2 + 3x$; $f(-2) =$ _____</p> <p>12. $g(x) = x - 4$; $g(1) =$ _____</p> <p>13. $f(x) = 5x + 1$; $f(3) =$ _____</p> <p>14. $f(x) = 2x - 3$; $f(x) = 9$, $x =$ _____</p> |
|---|--|

◆ **Word Problems**

15. A function gives cost $C(x) = 3x + 5$ for x items. Find $C(4)$. _____
16. $f(x) = 2x + 1$ models a pattern. For what x is $f(x) = 15$? _____
17. A ball's height is $h(t) = 20 - 5t$ meters after t seconds. Find $h(2)$. _____
18. Given $g(x) = x^2$, find $g(6)$. _____



Answer Keys

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

17.

18.

Step-by-Step Explanations

1. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Substitute 5: $4(5) - 9 = 20 - 9 = 11$. So the final answer is 11.

2. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Substitute -3 : $(-3)^2 + 2 = 9 + 2 = 11$. So the final answer is 11.

3. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Substitute 0: $-2(0) + 7 = 7$. So the final answer is 7.

4. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Substitute 2: $3(2)^2 - 2 = 3(4) - 2 = 12 - 2 = 10$. So the final answer is 10.

5. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Substitute 8: $\frac{8+6}{2} = \frac{14}{2} = 7$. So the final answer is 7.

6. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Substitute -4 : $7 - 3(-4) = 7 + 12 = 19$. So the final answer is 19.

7. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Set $2x + 5 = 17$. Subtract 5: $2x = 12$, so $x = 6$. So the final answer is 6.

8. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Set $x^2 - 1 = 24$, so $x^2 = 25$ and $x = \pm 5$. So the final answer is $x = \pm 5$.

9. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Set $-x + 10 = 3$. Then $-x = -7$, so $x = 7$. So the final answer is 7.

10. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Set $6x = 42$. Divide by 6: $x = 7$. So the final answer is 7.

11. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Substitute -2 : $(-2)^2 + 3(-2) = 4 - 6 = -2$. So the final answer is -2 .

12. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Substitute 1: $|1 - 4| = |-3| = 3$. So the final answer is 3.

13. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Substitute 3: $5(3) + 1 = 15 + 1 = 16$. So the final answer is 16.

14. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Set $2x - 3 = 9$. Add 3: $2x = 12$, so $x = 6$. So the final answer is 6.

15. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Substitute 4: $C(4) = 3(4) + 5 = 12 + 5 = 17$. So the final answer is 17.

16. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Set $2x + 1 = 15$. Subtract 1: $2x = 14$, so $x = 7$. So the final answer is 7.

17. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Substitute 2: $20 - 5(2) = 20 - 10 = 10$ meters. So the final answer is 10.

18. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Substitute 6: $6^2 = 36$. So the final answer is 36.



Keep Building TABE Math Skills

Recommended Effortless Math resources



The Most Comprehensive TABE Math Preparation Bundle

Use the complete TABE Math resource for review, worked examples, extra practice, and test-style questions after each worksheet.



Scan Me
Download Instantly

STUDENT FAVORITE - TABE Math for Beginners



TABE Math for Beginners 2026

Step-by-step lessons, topic practice, and full review support for students who want a calm path through TABE Math preparation.

A strong companion for self-study, tutoring, homework, and targeted review.

PDF Edition



Scan Me
Download Instantly

For more TABE Math prep, visit EffortlessMath.com/TABE