

NAME _____

Module 9 Using Functions
Lesson 2 Evaluating Functions



**additional
practice**

For the set of ordered pairs $\{(2, -2), (0, 4), (4, 5), (-2, -8), (5, 0)\}$, name the output associated with the given input.

1. input: 2 output: **-2** _____
 2. input: 4 output: **5** _____
 3. input: -2 output: **-8** _____
 4. input: 0 output: **4** _____

For the set of ordered pairs $\{(3, -2), (4, -6), (-6, 0), (0, -1), (1, 3)\}$, name the input associated with the given output.

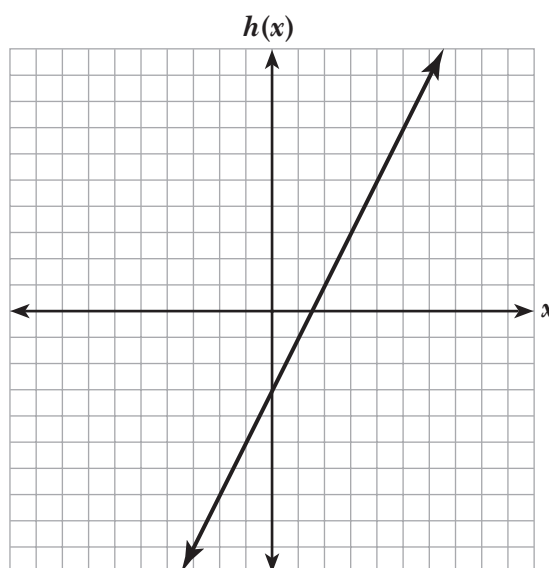
5. output: 3 input: **1** _____
 6. output: -1 input: **0** _____
 7. output: 0 input: **-6** _____
 8. output: -6 input: **4** _____

Evaluate.

9. $f(0)$ if $f(x) = 2x + 3$ **3** _____
 10. $g(2)$ if $g(x) = x - 4$ **-2** _____
 11. $r(-3)$ if $r(x) = 4 - x$ **7** _____
 12. $t(5)$ if $t(x) = x^2 + 3$ **28** _____
 13. $f(2)$ if $f(x) = -5$ **-5** _____
 14. $w(-3)$ if $w(x) = \sqrt{x + 4}$ **1** _____
 15. $c(8)$ if $c(x) = |2x - 20|$ **4** _____
 16. $h(4)$ if $h(x) = \frac{x}{x - 5}$ **-4** _____

Use the graph of $h(x)$ to find each value.

17. $h(-2) =$ **-7** _____
 18. $h(0) =$ **-3** _____
 19. $h(1) =$ **-1** _____
 20. $h(3) =$ **3** _____
 21. Use the graph of $h(x)$ to write the equation of the line as a function. **$h(x) = 2x - 3$** _____



Use the graph of $g(x)$ to find each value.

22. $g(-6) = \underline{-2}$

23. $g(-2) = \underline{0}$

24. $g(0) = \underline{1}$

25. $g(4) = \underline{3}$

26. Use the graph of $g(x)$ to write the equation of the line as a function. $\underline{g(x) = \frac{1}{2}x + 1}$

