



STUDYDADDY

Get Homework Help From Expert Tutor

[Get Help](#)

Given that $f(x) = x^2 - 2x$ and $g(x) = x + 14$, find:

a) $(f + g)(-5) =$

b) $(f - g)(-5) =$

c) $(fg)(-5) =$

d) $\left(\frac{f}{g}\right)(-5) =$

Given that $f(x) = (x - 7)^2$ and $g(x) = 5 - 3x$, find:

a) $(f + g)(-3) =$

b) $(f - g)(-3) =$

c) $(fg)(-3) =$

d) $\left(\frac{f}{g}\right)(-3) =$

In a Northwest Washington County, the speeding fines are determined by the formula:

$$F(s) = 12(s - 45) + 60$$

where $F(s)$ is the cost in dollars of the fine if a person is caught driving at a speed of s miles per hour.

If a fine comes to a total of \$144, how fast in mph was the person driving?

mph

Given that $f(x) = 8x - 8$ and $g(x) = 5 - x^2$, find:

a) $f(g(0)) =$

b) $g(f(0)) =$

Given that $f(x) = x^2 - 2x$ and $g(x) = x - 8$, find:

a) $(f \circ g)(1) =$

b) $(g \circ f)(1) =$

Given that $f(x) = x^2 + 2x$ and $g(x) = x + 4$, find the **unsimplified AND simplified** versions of the following compositions:

a) $(f \circ g)(x) =$ **unsimplified**

$(f \circ g)(x) =$ **simplified**

b) $(f \circ f)(x) =$ **unsimplified**

$(f \circ f)(x) =$ **simplified**

The function $h(x) = \frac{1}{x+5}$ can be expressed in the form $f(g(x))$ where $g(x) = x + 5$ and $f(x)$ is defined as:

$f(x) =$

The function $h(x) = (x + 2)^7$ can be expressed in the form $f(g(x))$ where $f(x) = x^7$, and $g(x)$ is defined below:

$g(x) =$

Use the table of values to evaluate the expressions below.

x	$f(x)$	$g(x)$
0	3	9
1	1	0
2	0	8
3	5	6
4	6	5
5	8	7
6	2	2
7	4	1
8	9	4
9	7	3

$$f(g(0)) = \boxed{}$$

$$g(f(8)) = \boxed{}$$

$$f(f(3)) = \boxed{}$$

$$g(g(5)) = \boxed{}$$

If $f(x) = x^4 + 4$, $g(x) = x - 5$ and $h(x) = \sqrt{x}$, then

$$f(g(h(x))) = \boxed{}$$

Given that $f(x) = 2x - 8$ and $g(x) = x^2 + 5$, find:

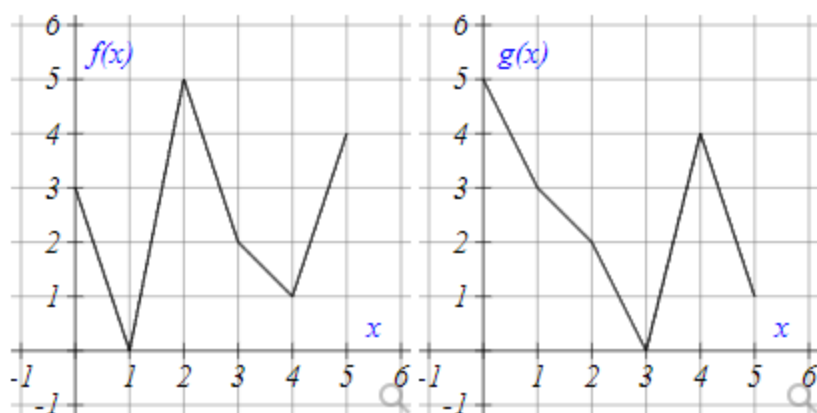
a) $f(g(0)) = \boxed{}$

b) $g(f(0)) = \boxed{}$

c) $f(f(0)) = \boxed{}$

d) $g(g(0)) = \boxed{}$

Use the graphs of $f(x)$ and $g(x)$ to evaluate the expressions below.



$$f(g(1)) = \boxed{}$$

$$g(f(3)) = \boxed{}$$

$$f(f(5)) = \boxed{}$$

$$g(g(4)) = \boxed{}$$

Given that $f(x) = 6 - \sqrt{x^2 + 1}$ and $g(x) = x - 4$, find:

a) $(f \circ g)(6) = \boxed{}$

b) $(f \circ g)(x) = \boxed{}$

Given that $f(x) = 3x - 7$ and $g(x) = x^2 - 6x + 2$, find unsimplified AND simplified versions of the following compositions:

a) $(f \circ g)(x) =$ (unsimplified)

$(f \circ g)(x) =$ (simplified)

b) $(g \circ f)(x) =$ (unsimplified)

$(g \circ f)(x) =$ (simplified)

If $f(x) = 5x - 4$ and $g(x) = \frac{x + 4}{5}$,

(a) $f(g(x)) =$

(b) $g(f(x)) =$

(c) Thus $g(x)$ is called an function of $f(x)$



STUDYDADDY

**Get Homework Help
From Expert Tutor**

Get Help