

Evaluating Composition of Two Functions

A) If $f(x) = \frac{2x}{3-x}$, $g(x) = 2x^2 - 4x + 4$ and $h(x) = \frac{x}{8}$, evaluate the following.

1) $h(f(-3))$

2) $h(g(1))$

B) If $f(x) = 14$, $g(x) = 5x^4 + 1$ and $h(x) = x^2 - x$, evaluate the following.

1) $(g \circ g)(0)$

2) $(h \circ f)(2)$

C) If $f(x) = x - 6$ and $g(x) = 2x + 3$, evaluate the following.

1) $(f \circ g)(-9)$

3) Is $(f \circ g)(-9) = (g \circ f)(-9)$?

D) 1) If $g(x) = 8x - 1$ and $h(x) = \frac{1}{3^x - 1}$, which of the following represents $g(h(2))$?

i) -1

ii) 4

iii) 2

iv) 0

2) If $f(x) = \log_{10} x$ and $h(x) = x^3 + 9x$, which of the following represents $(h \circ f)(10)$?

i) 9

ii) 10

iii) -1

iv) 1

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Evaluating Composition of Two Functions

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1) $h(f(-3))$

2) $h(g(1))$

 $-\frac{1}{8}$

 $\frac{1}{4}$

B) If $f(x) = 14$, $g(x) = 5x^4 + 1$ and $h(x) = x^2 - x$, evaluate the following.

1) $(g \circ g)(0)$

 6

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C) If $f(x) = x - 6$ and $g(x) = x^2 + 3x - 1$, evaluate the following.

1) $(f \circ g)(-9)$

 -9

 -9

3) Is $(f \circ g)(-9) = (g \circ f)(-9)$ true or false?

 true

D) 1) If $g(x) = 8x - 1$ and $h(x) = \frac{1}{3^x - 1}$, which of the following represents $g(h(2))$?

i) -1

ii) 4

iii) 2

iv) 0

2) If $f(x) = \log_{10} x$ and $h(x) = x^3 + 9x$, which of the following represents $(h \circ f)(10)$?

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