

Name: _____

ES1

Evaluating Composition of Two Functions

A) If $f(x) = -5x^3 - 12$, $g(x) = \frac{1}{x-9}$ and $h(x) = 9x + 8$, evaluate the following.

1) $f(g(7))$

2) $g(h(0))$

B) If $f(x) = 4x^4 - x + 11$, $g(x) = x^2 - 1$ and $h(x) = x + 13$, evaluate the following.

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

2) $(h \circ f)(10)$

C) If $f(x) = 7^x$ and $h(x) =$

1) $(h \circ f)(8)$

3) Is $(h \circ f)(8) = (f \circ$

D) 1) If $f(x) = \frac{x}{6}$ and $g(x) = 15 - x$, which of the following represents $g(f(-6))$?

i) 14

ii) 16

iii) -16

iv) -14

2) If $g(x) = 2$ and $h(x) = 10x - 12$, which of the following represents $(h \circ g)(11)$?

i) 8

ii) -32

iii) 32

iv) -8

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