

Evaluating Composition of Two Functions

A) If $f(x) = \frac{x}{5}$, $g(x) = x^2 - 3x$ and $h(x) = 3x + 4$, evaluate the following.

1) $h(g(5))$

2) $f(f(-10))$

B) If $f(x) = -2x + 1$, $g(x) = -x^3 - 9x^2$ and $h(x) = \frac{1}{11-x}$, evaluate the following.

1) $(f \circ h)(4)$

C) If $g(x) = 7x - 9$ and $h(x) = 2x + 3$, evaluate the following.

1) $(g \circ h)(12)$

3) Is $(g \circ h)(12) = (h \circ g)(12)$?

D) 1) If $f(x) = \log_e x + 13$ and $h(x) = e^x$, which of the following represents $(f \circ h)(7)$?

i) 42

ii) -55

iii) 55

iv) -42

2) If $f(x) = (6x + 3)^2$ and $g(x) = \frac{x}{15}$, which of the following represents $g(f(-3))$?

i) 25

ii) 12

iii) 18

iv) 15

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