

Composition of Two Functions

A) If $f(x) = -2$, $g(x) = 8x$ and $h(x) = 6$, find the following.

1) $h(f(x))$

2) $g(h(x))$

B) If $f(x) = 3x^2 - 2x + 13$, $g(x) = 2x$ and $h(x) = x - 9$, find the following.

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

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

C) If $f(x) = x^2$, $g(x) = 1$, find

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

3) Is $(f \circ g)(x) \neq (g \circ f)(x)$?

D) 1) If $f(x) = 7 - x^2$ and $g(x) = x - 4$, which of the following represents $f(g(x))$?

i) $x^2 + 8x - 9$

ii) $-x^2 + 8x + 9$

iii) $-x^2 + 8x - 9$

iv) $x^2 - 8x - 9$

2) If $g(x) = (x - 2)^2$ and $h(x) = 5$, which of the following represents $(g \circ h)(x)$?

i) 25

ii) 49

iii) 27

iv) 9

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