

Composition of Two Functions

A) If $f(x) = \sqrt{3}$, $g(x) = \frac{6}{x^2}$ and $h(x) = 2x^4 - 8x^2$, find the following.

1) $g(f(t))$

2) $h(f(b^2))$

B) If $f(x) = x - 3$, $g(x) = e^{5x}$ and $h(x) = \log_e x$, find the following.

1) $(g \circ h)(3 - d)$

2) $(f \circ f)(h^{-1}(1))$

C) If $f(x) = -x$ and $h(x) =$

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

3) Is $(h \circ f)(2v) = (f \circ h)(2v)$?

D) 1) If $f(x) = -x + 11$ and $g(x) = 7x + 15$, which of the following represents $f(g(-c))$?

i) $7c^3 - 2$

ii) $7c^3 + 2$

iii) $-7c^3 - 2$

iv) $-7c^3 + 2$

2) If $g(x) = x^2 + 4$ and $h(x) = \sqrt{x - 5}$, which of the following represents $(g \circ h)(w + 6)$?

i) $-w + 5$

ii) $w - 5$

iii) $w + 5$

iv) $-w - 5$

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