

Composition of Two Functions

A) 1) If $f(x) = -4$, $g(x) = 8x$ and $h(x) = 6$, find the following.

a) $h(f(x))$

b) $g(h(x))$

2)

Preview

3)

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B) 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 $h(x) = 3$, which of the following represents $(g \circ h)(x)$?

i) 25

ii) 49

iii) 9

iv) 1