

Evaluating Composition of Functions

A) 1) If $f(x) = \frac{x}{5}$, $g(x) = x^2 - 3x$ and $h(x) = 3x + 6$, evaluate the following.

a) $h(g(5))$

b) $f(f(-10))$

2)

Preview

3)

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B) 1) If $f(x) = \log_e x + 13$ and $h(x) = e^{6x}$, 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