

## Evaluating Composition of Functions

A) 1) If  $f(x) = \frac{2x}{3-x}$ ,  $g(x) = 2x^2 - 4x + 6$  and  $h(x) = \frac{x}{8}$ , evaluate the following.

a)  $h(f(-3))$

b)  $h(g(1))$

2)

# Preview

3)

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B) 1) If  $g(x) = 8x - 1$  and  $h(x) = \frac{1}{3^x - 1}$ , which of the following represents  $g(h(2))$ ?

i) -1

ii) 4

iii) 2

iv) 0

2) If  $f(x) = \log_{10} x$  and  $h(x) = x^3 + 9x$ , which of the following represents  $(h \circ f)(10)$ ?

i) 9

ii) 10

iii) -1

iv) 1