Evaluating Composition of Two Functions

- A) If f(x) = 7, g(x) = -9x and h(x) = x(x 3) 4, evaluate the following.
 - 1) $h\left(g\left(-\frac{1}{9}\right)\right)$

2) $f\left(h\left(\frac{5}{3}\right)\right)$

- B) If $g(x) = 3x^3$, $f(x) = \sqrt[3]{4x+1}$ and $h(x) = \frac{-12}{8x-1}$, evaluate the following.
 - 1) $(g \circ f) \left(\frac{9}{4}\right)$

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PREVIEW

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 - 1) $(h \circ g)(-\frac{3}{8})$

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3) Is $(h \circ g)(-\frac{3}{8}) = (g \circ e)$

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- D) 1) If $f(x) = 6\log_e x$ and n(x) = e, which of the following represents $f(h(\frac{1}{3}))$?
 - i) 12

ii) 9

iii) 2

- iv) 3
- 2) If g(x) = 17 and $f(x) = 5x^6 3x^4$, which of the following represents $(g \circ f)(-\frac{1}{5})$?
 - i) 17

ii) 13

- iii) –17
- iv) 11

Evaluating Composition of Two Functions

A) If f(x) = 7, g(x) = -9x and h(x) = x(x - 3) - 4, evaluate the following.

1) $h\left(g\left(-\frac{1}{9}\right)\right)$

2) $f(h(\frac{5}{3}))$

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B) If $g(x) = 3x^3$, $f(x) = \sqrt[3]{4x + 1}$ and $h(x) = \frac{-12}{8x - 1}$, evaluate the following.

1) $(g \circ f)(\frac{9}{4})$

PREVIEW

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1) $(h \circ g)(-\frac{3}{8})$

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3) Is $(h \circ g)(-\frac{3}{8}) = (g \circ e)$

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D) 1) If $f(x) = 6\log_e x$ and n(x) = e, which of the following represents $f(h(\frac{1}{3}))$?

i) 12

ii) 9

iii) 2

iv) 3

2) If g(x) = 17 and $f(x) = 5x^6 - 3x^4$, which of the following represents $(g \circ f)(-\frac{1}{5})$?

ii) 13

- iii) –17
- iv) 11