Name: _____

Composition of Two Functions

L2S3

A) If $f(x) = -x - 3$, $g(x) = x^2 - 7x - 14$ and $h(x) = -\frac{1}{x^2}$, find the following.

1) $h(h(x))$

2) $g(f(x))$

B) If $f(x) = \frac{\sqrt{x}}{3}$, $g(x) = 9x^4 + 9$ and $h(x) = -15$, find the following.

1) $(f \circ g)(x)$

C) If $g(x) = \frac{2x}{x-1}$ and h

1) $(h \circ g)(x)$

3) Is $(h \circ g)(x) = (g \circ$

D) 1) If $f(x) = x + 8$ and $g(x) = 4^x - 6$, which of the following represents $f(g(x))$?

i) $14 - 4^x$ ii) $4^x + 14$ iii) $4^x - 2$ iv) $4^x + 2$

2) If $g(x) = e^{7x}$ and $h(x) = \log_e x$, which of the following represents $(h \circ g)(x)$?

i) e^7 ii) 7 iii) $7x$ iv) x

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