Composition of Three Functions

- A) If $f(x) = x^2 3$, $g(x) = 2x^2 + 6$ and h(x) = -x, find the following.
 - 1) g(f(h(x)))

2) f(h(g(x)))

- B) If f(x) = 5x 1, g(x) = 6x and h(x) = 3 x, find the following.
 - 1) $(f \circ g \circ h)(x)$

PREVIEW

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

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- 3) Is $(g \circ (h \circ f))(x) =$ www.mathworksheets4kids.com
- D) 1) If g(x) = 4x 3 and n(x) = 1 x, which of the following represents h(h(g(x)))?
 - i) 4x + 3
- ii) $2x^2 + 4x 10$ iii) $3x 7x^2$ iv) 4x 3

- 2) If f(x) = 3x + 8 and g(x) = -6, $h(x) = -2x^2$, which of the following represents (fohog)(x)?
 - i) $2x^2 85$ ii) -208
- iii) 3x + 92
- iv) 208