Composition of Three Functions

A) If $f(x) = 9x^2 - 6x$, $g(x) = 4x + 7$ and $h(x) = -8$, find the following.

1) $h(g(f(x)))$

2) $g(h(g(x)))$

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B) If $f(x) = x - 5$, $g(x) = x$ and $h(x) = 1 + x^2$, find the following.

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

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C) If $f(x) = 6x - 4$, $g(x) =$

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

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

D) 1) If $f(x) = 4$, $g(x) = 9x - 8$ and $h(x) = 3x + 1$, which of the following represents $(g \circ f \circ h)(x)$?

   i) -28 ii) $9x - 8$ iii) 28 iv) $9x + 12$

2) If $f(x) = -2x$, $g(x) = 5x$ and $h(x) = x + 6$, which of the following represents $h(g(f(x)))$?

   i) $-10x + 6$ ii) $4x + 6$ iii) $-10x - 6$ iv) $10x + 6$