

# Composition of Two Functions

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1) If  $f(x) = 7x - 9$ ,  $g(x) = 5$ , and  $h(x) = 9$ , find the following.

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

b)  $(f \circ h)(x)$

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2) If  $f(x) = 6x^2 - 2x + 1$ ,  $g(x) = 3x$ , and  $h(x) = 8x$ , find the following.

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

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

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3) If  $g(x) = 5x^2 - x$  and  $h(x) = -x$ , find the following.

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

b)  $(h \circ h)(x)$

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4) If  $f(x) = x^2 + 4x - 10$ ,  $g(x) = 2x - 8$ , and  $h(x) = -7$ , find the following.

a)  $(f \circ h)(x)$

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

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