

Composition of Two Functions

1) If $f(x) = x^2 + 2x - 5$, $g(x) = 1$, and $h(x) = 3$, find the following.

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

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

2) If $g(x) = 4x - 8$ and $h(x) = 6x - 1$, find the following.

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

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

3) If $f(x) = 7x^2 - 18x$, $g(x) = x^2$, and $h(x) = -2$, find the following.

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

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

4) If $f(x) = -3x + 10$, $g(x) = 9x$, and $h(x) = -4x$, find the following.

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

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