

Composition of Functions

 $f \circ g$ ← product

composition symbol

Given two functions f and g , the composite function, denoted by $f \circ g$ is defined by

"f composed with g":

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

read right to left
g of x plug into F of

X

Example 1. Suppose $f(x) = 3x + 2$ and $g(x) = 3x^2 - 1$. Evaluate each expression below.

(a) $f(2) = 3(2) + 2 = 6 + 2 = 8$

Plug in $x = 2$ to $f(x)$.

(b) $g(2) = 3(2)^2 - 1 = 3(4) - 1 = 12 - 1 = 11$

(c) $f(g(1)) = 3(1)^2 - 1 = 3(1) - 1 = 2$
① find $g(1)$ $3(2) + 2 = 6 + 2 = 8$

(d) $g(f(-1)) = 3(-1) + 2 = -3 + 2 = -1$
① find $f(-1)$ $3(-1)^2 - 1 = 3 - 1 = 2$

(e) $(f \circ g)(2) = 3(2)^2 - 1 = 3(4) - 1 = 11$
"f" composed with "g" $3(11) + 2 = 35$
 $f(g(2))$

(f) $(g \circ f)(2) = 3(2) + 2 = 8$
 $3(8)^2 - 1 = 3(64) - 1 = 192 - 1 = 191$

Example 2. Suppose $f(x) = 2x + 1$ and $g(x) = x^2 - 16$.(a) Find and simplify $(f \circ g)(x)$.

$$f(g(x))$$

Plug in formula for g into $f(x)$.

$$2(x^2 - 16) + 1$$

$$2x^2 - 32 + 1$$

$$2x^2 - 31$$

(b) Find and simplify $(g \circ f)(x)$.Plug in the formula for f into $g(x)$.

$$(2x + 1)^2 - 16$$

$$(2x + 1)(2x + 1) - 16$$

$$4x^2 + 2x + 2x + 1 - 16$$

$$4x^2 + 4x - 15$$

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