

Composite Function

Name: _____ Class: _____

Learning Goal: to make students understand the process of composite functions

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

1. Given the function $f(x) = x^2 - 2x$ and $g(x) = 3 - x$ find the value of :

a. $gf(4) =$

b. $fg(4) =$

c. $ff(1) =$

d. $gg(100) =$

2. Given the function $f(x) = 8 - x^2$ and $g(x) = x^2 - 8$ find :

a. $fg(x) =$

b. $gf(x) =$

c. $ff(x) =$

d. $gg(x) =$