function composition

example

exercise 3

function composition

example

Consider function decomposition of the following two functions

$$f(x) = 2x + 3$$

$$g(x) = x^2$$

Composition 1: $g \circ f$

1. First $f(x) = 2x + 3$
2. Then $g(f(x)) = (2x + 3)^2$

Composition 2: $f \circ g$

1. First $g(x) = x^2$
2. Then $f(g(x)) = 2(x^2) + 3 = 2x^2 + 3$

exercise 3

use specific value $x = 2$ in the example

function composition