

Composition of Functions Practice

Simplify each composition

1.

$$h(x) = x - 1$$

$$g(x) = 6x + 3$$

$$h(g(x))$$

$$h(g(x)) = (\quad) - 1$$

2.

$$h(x) = x + 5$$

$$k(x) = 5x + 1$$

$$h(k(x))$$

$$h(k(x)) = (\quad) + 5$$

3.

$$f(x) = 3x + 6$$

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

$$f(g(x))$$

$$f(g(x)) = 3(\quad) + 6$$

4.

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

$$g(x) = 4x - 8$$

$$g(f(x))$$

$$g(f(x)) = 4(\quad) - 8$$