

Given two functions,  $f(x)$  and  $g(x)$ , the composite function, written  $f \bullet g$ , is defined as

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

Let  $f(x) = 2x + 5$ , and  $g(x) = x^2 + 2$ , find the following values.

$$(f \bullet g)(1)$$

$$(f \bullet g)(-2)$$

$$(g \bullet f)(5)$$

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If  $f \bullet g = h$ , and  $h(x) = x^4 - 1$ , find the components  $f(x)$  and  $g(x)$ .

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If  $f \bullet g = h$ , and  $h(x) = (x^4 - 4)^{10}$ , find the components  $f(x)$  and  $g(x)$ .