

## Exercise 10

For the following exercises, use the functions  $f(x) = 3 - 2x^2 + x$  and  $g(x) = \sqrt{x}$  to find the composite functions.

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

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### Solution

Evaluate  $(g \circ f)(x)$  by plugging the formula for  $f(x)$  where  $x$  is in the formula for  $g(x)$ .

$$\begin{aligned}(g \circ f)(x) &= g(f(x)) \\ &= \sqrt{3 - 2x^2 + x}\end{aligned}$$