Exercise 78

For the following exercises, use the functions $f(x) = 2x^2 + 1$ and $g(x) = 3x + 5$ to evaluate or find the composite function as indicated.

$$g(f(-3))$$

Solution

Evaluate $f(-3)$ first: $f(-3) = 2(-3)^2 + 1 = 2(9) + 1 = 19$. Therefore,

$$g(f(-3)) = g(19) = 3(19) + 5 = 62.$$