Exercise 86

For the following exercises, let $F(x) = (x+1)^5$, $f(x) = x^5$, and g(x) = x+1.

True or False: $(f \circ g)(x) = F(x)$.

Solution

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

$$(f \circ g)(x) = f(g(x))$$
$$= (x+1)^5$$

True.