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

$$
\begin{aligned}
(f \circ g)(x) & =f(g(x)) \\
& =(x+1)^{5}
\end{aligned}
$$

True.

