

## Answer on Question #57483 – Math – Calculus

### Question

Find the simplest functions  $f$  and  $g$  for which

$$(f \circ g)(x) = \sin(x^7 + 1).$$

### Solution

$$f = \sin(x), g = x^7 + 1$$

$$(f \circ g)(x) = f(g(x)) = \sin(g(x)) = \sin(x^7 + 1);$$

**Answer:**  $f = \sin(x), g = x^7 + 1.$