

Answer on Question 42367 - Math - Calculus

$$f(x) = x^3 + 4; g(x) = \sqrt[3]{x-4}$$

1. $f(g(x)) = (\sqrt[3]{x-4})^3 + 4 = x - 4 + 4 = x$
2. $g(f(x)) = \sqrt[3]{(x^3 + 4) - 4} = \sqrt[3]{x^3} = x$