

Exercise 46

Express the function in the form $f \circ g$.

$$G(x) = \sqrt[3]{\frac{x}{1+x}}$$

Solution

$$\begin{aligned} G(x) &= f \circ g \\ &= f(g(x)), \end{aligned}$$

where

$$\begin{aligned} f(x) &= \sqrt[3]{x} \\ g(x) &= \frac{x}{1+x}. \end{aligned}$$