

Exercise 50

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

$$H(x) = \sqrt[8]{2 + |x|}$$

Solution

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

where

$$\begin{aligned} f(x) &= \sqrt[8]{x} \\ g(x) &= 2 + x \\ h(x) &= |x|. \end{aligned}$$