Exercise 58

For the following exercises, determine whether each function below is even, odd, or neither.

$$g(x) = \sqrt{x}$$

Solution

Replace x with $-x$ in the given formula.

$$\begin{aligned} g(-x) = \sqrt{-x} &\neq g(x) \\ &\neq -g(x) \end{aligned}$$

Since $g(-x) \neq g(x)$ and $g(-x) \neq -g(x)$, the function is neither even nor odd.