

Exercise 50

In Exercises 47–62, say whether the function is even, odd, or neither. Give reasons for your answer.

$$f(x) = x^2 + x$$

Solution

The function is neither even nor odd because

$$\begin{aligned} f(-x) &= (-x)^2 + (-x) = x^2 - x \neq f(x) \\ &\neq -f(x). \end{aligned}$$

This is reflected in the graph by the lack of symmetry about the y -axis or origin.

