

Exercise 49

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

$$f(x) = x^2 + 1$$

Solution

The function is even because

$$\begin{aligned} f(-x) &= (-x)^2 + 1 \\ &= x^2 + 1 \\ &= f(x). \end{aligned}$$

This is reflected in the graph by the symmetry about the y -axis.

