

Exercise 61

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

$$\cos 3x$$

Solution

The function is even because cosine is an even function.

$$\begin{aligned}\cos 3(-x) &= \cos(-3x) \\ &= \cos 3x\end{aligned}$$

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

