## Exercise 57

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

$$f(x) = 3x^4$$

## Solution

Replace x with -x in the given formula.

$$f(-x) = 3(-x)^4$$
$$= 3(-1)^4 x^4$$
$$= 3(1)x^4$$
$$= 3x^4$$
$$= f(x)$$

Since f(-x) = f(x), the function is even.