## Exercise 51

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

$$g(x) = 2x^4$$

## Solution

Plug in -x for x and see if the result is either g(x) or -g(x).

$$g(-x) = 2(-x)^4$$

$$= 2(-1)^4 x^4$$

$$= 2(1)x^4$$

$$= 2x^4$$

$$= g(x)$$

Therefore, the function is even.