Exercise 78
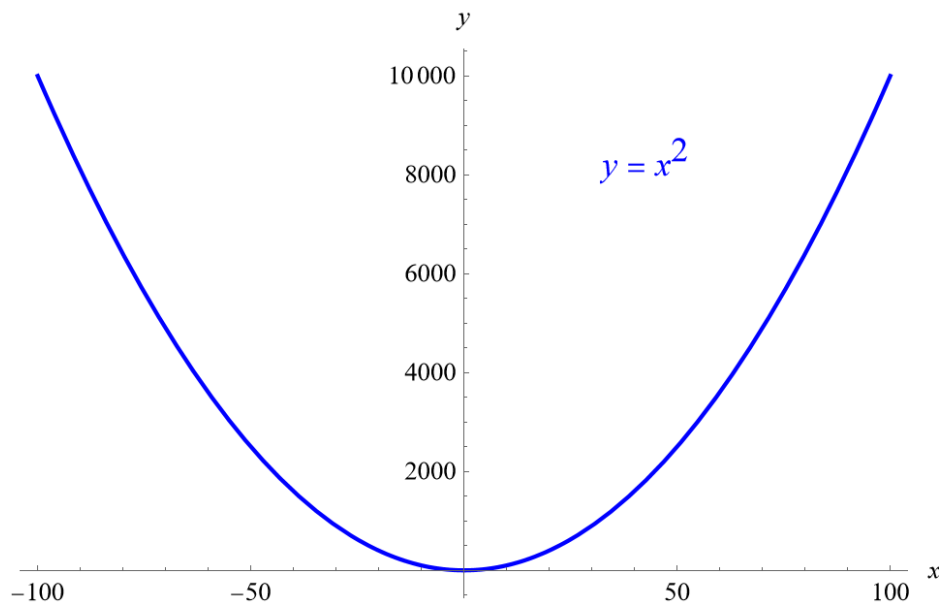
For the following exercises, graph $y = x^2$ on the given domain. Determine the corresponding range. Show each graph.

$$[-100, 100]$$

Solution

Below is a graph of $y = x^2$ versus x over $-100 \leq x \leq 100$.

The range associated with $\{x \mid -100 \leq x \leq 100\}$ is $\{y \mid 0 \leq y \leq 10\,000\}$.