Exercise 80
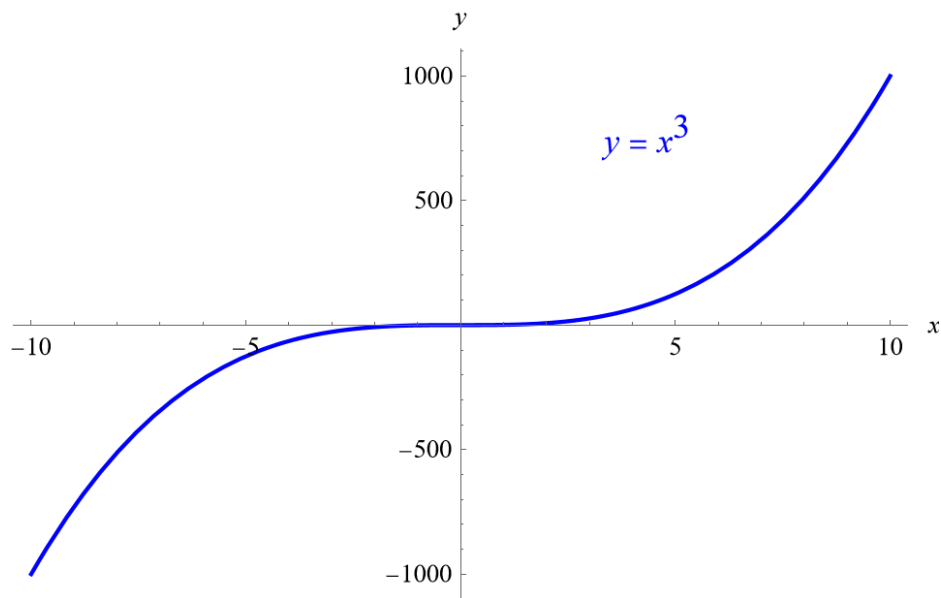
For the following exercises, graph $y = x^3$ on the given domain. Determine the corresponding range. Show each graph.

$$[-10, 10]$$

Solution

Below is a graph of $y = x^2$ versus x over $-10 \leq x \leq 10$.

The range associated with $\{x \mid -10 \leq x \leq 10\}$ is $\{y \mid -1000 \leq y \leq 1000\}$.