

## Exercise 21

For the following exercises, determine whether the relation represents  $y$  as a function of  $x$ .

$$y = x^3$$

### Solution

The relation  $y = x^3$  is a function because for every input  $x$ , there's exactly one output given by  $y = x^3$ . This is reflected in the graph by the fact that any vertical line passes through the curve exactly once.

