

## Exercise 17

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

$$y = \frac{3x + 5}{7x - 1}$$

### Solution

The relation  $y = (3x + 5)/(7x - 1)$  is a function because for every input  $x$ , there's exactly one output given by  $y = (3x + 5)/(7x - 1)$ . This is reflected in the graph by the fact that any vertical line passes through the curve exactly once.

