

MATH2301 Assignment 1

(1)

Let $S = \mathbb{R} - 0$

Define $R \subset S \times S$ as $(x, y) | xy = 3$ and R is the I/O relation of f .

Find $f(1)$ and $f(3)$. Justify your answers.

R is the I/O relation of $f(x) = \frac{3}{x}$, this is true because

$$\forall x \in S, \exists y \in S | y = \frac{3}{x}$$

$$\therefore f(1) = 3, f(3) = 1$$