assignment 1.md 2024-07-30

MATH2301 Assignment 1

(1)

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

Define $R\subset S imes S$ 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 $f(x)=rac{3}{x}$, this is true because $orall x\in S, \exists y\in S|y=rac{3}{x}$

$$orall x \in S, \exists y \in S | y = rac{3}{x}$$

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