

G11 Functions

he 16 Oct 2018

Assignment 1

Book p14-16

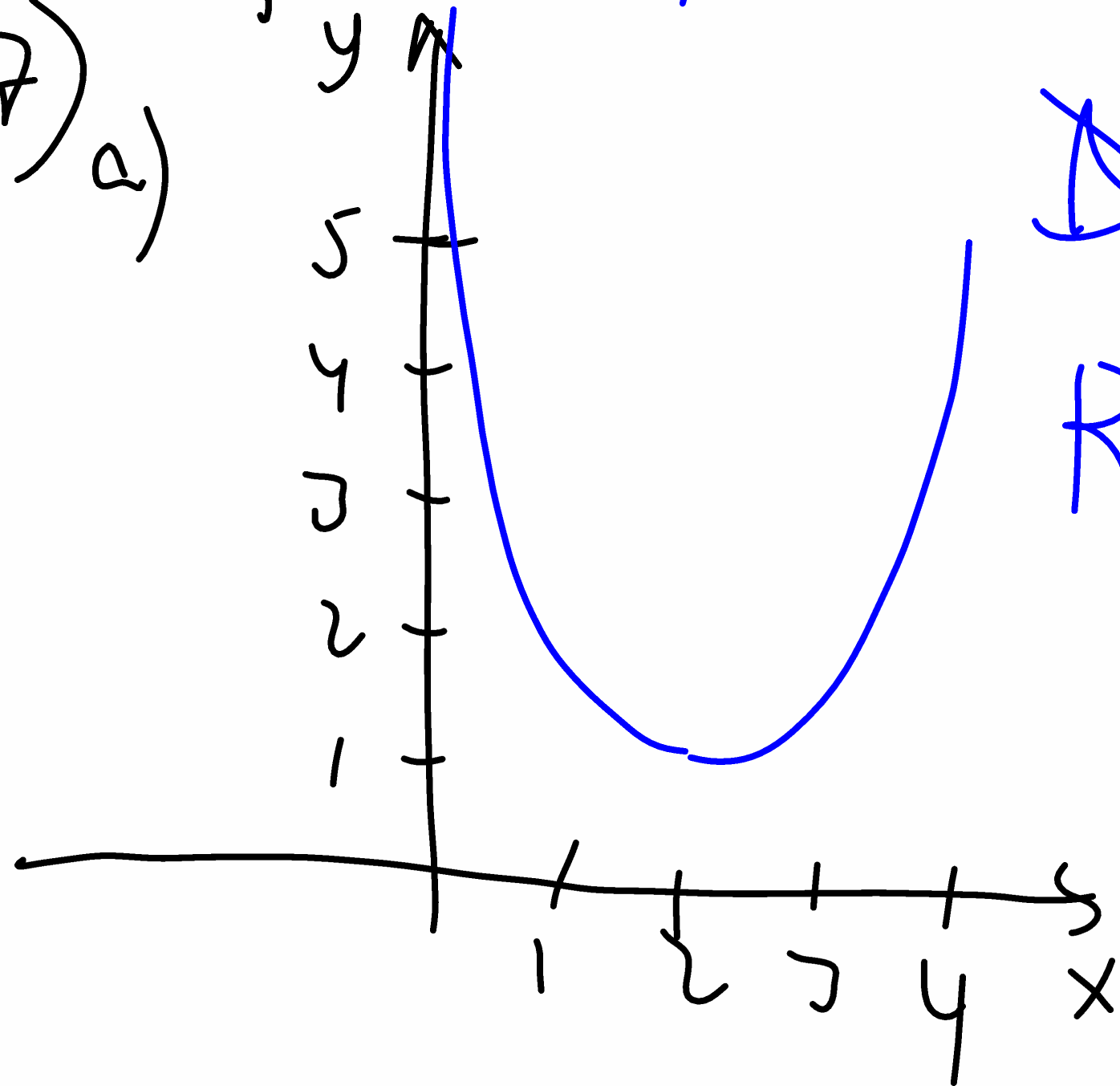
7) a)

yes is a function

All
Real
Numbers

Domain = $\mathbb{R}$

Range = $\{y \in \mathbb{R} \mid y \geq 1\}$



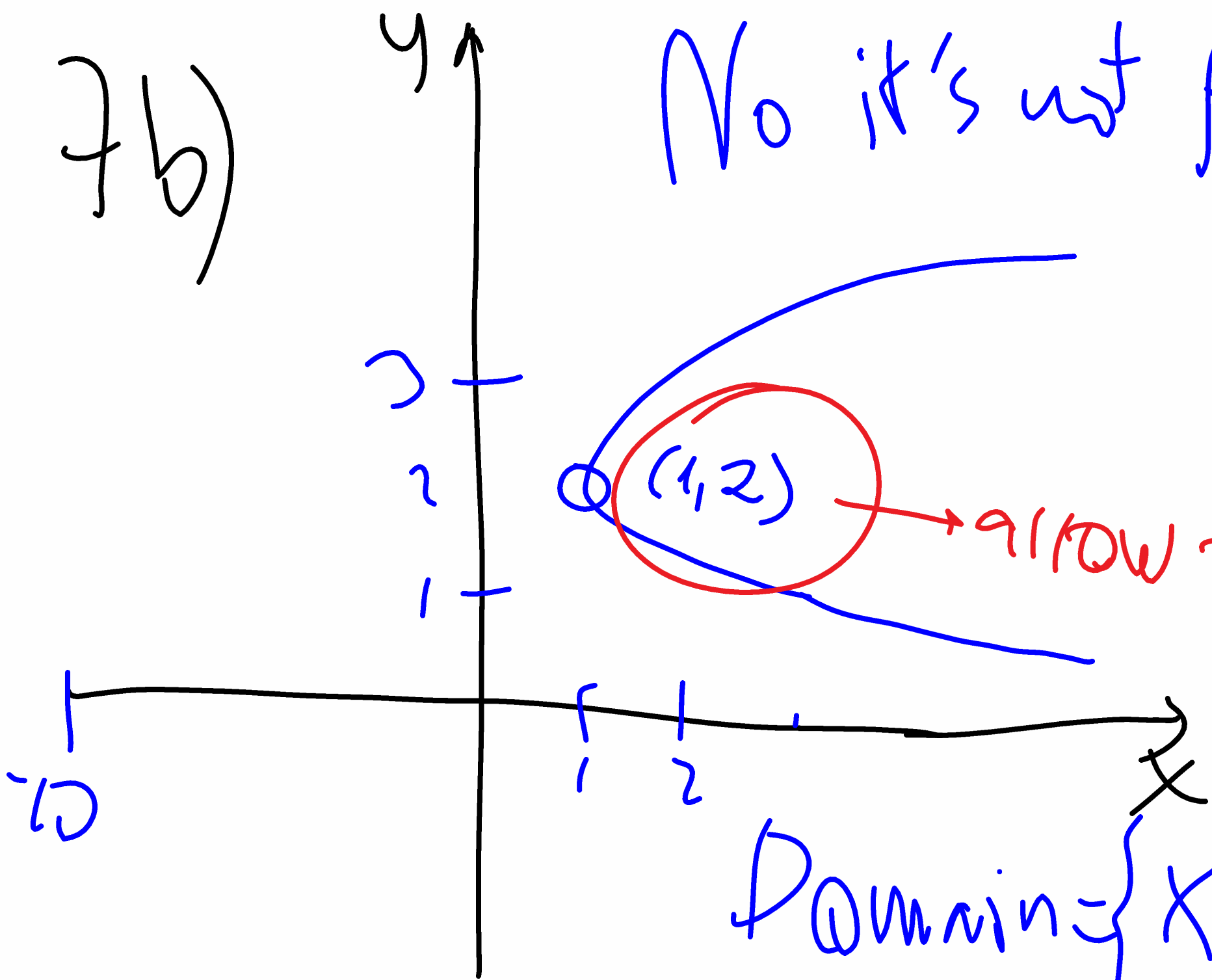
€

Example:

Define the set
of all cars

$$\text{Cars} = \left\{ \begin{array}{l} \text{has engine} \\ \text{2} \\ \text{four wheels} \end{array} \right\}$$

7b)



No it's not function

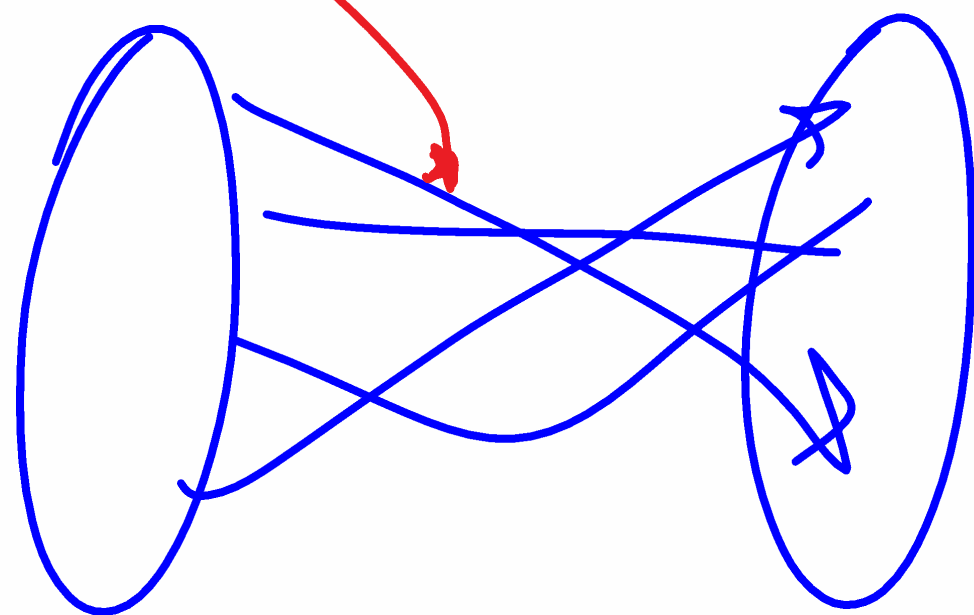
It is a

Relation =

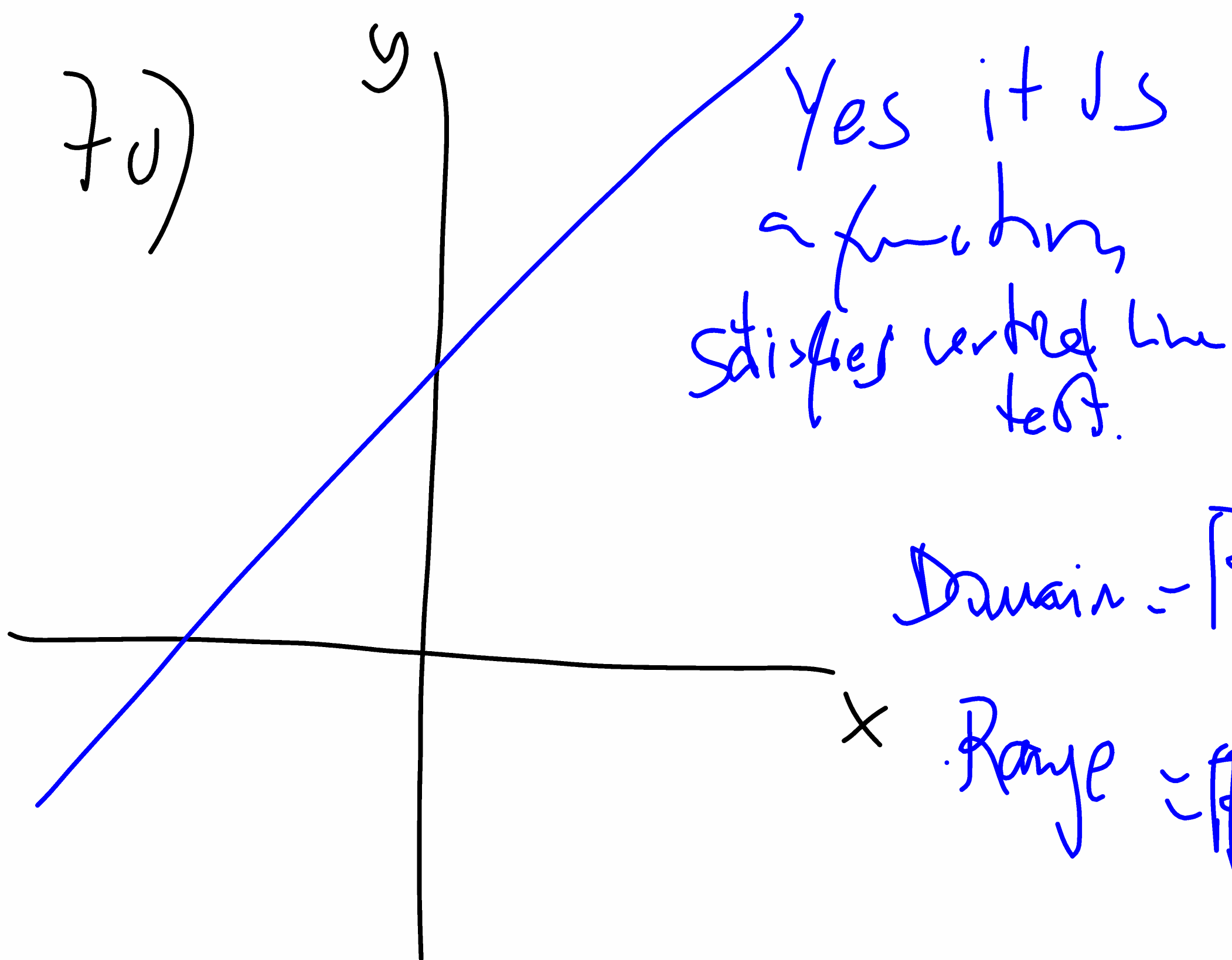
the blue
line

Domain = $\{x \in \mathbb{R} \mid x \geq 1\}$

Range = $\mathbb{R}$



70)

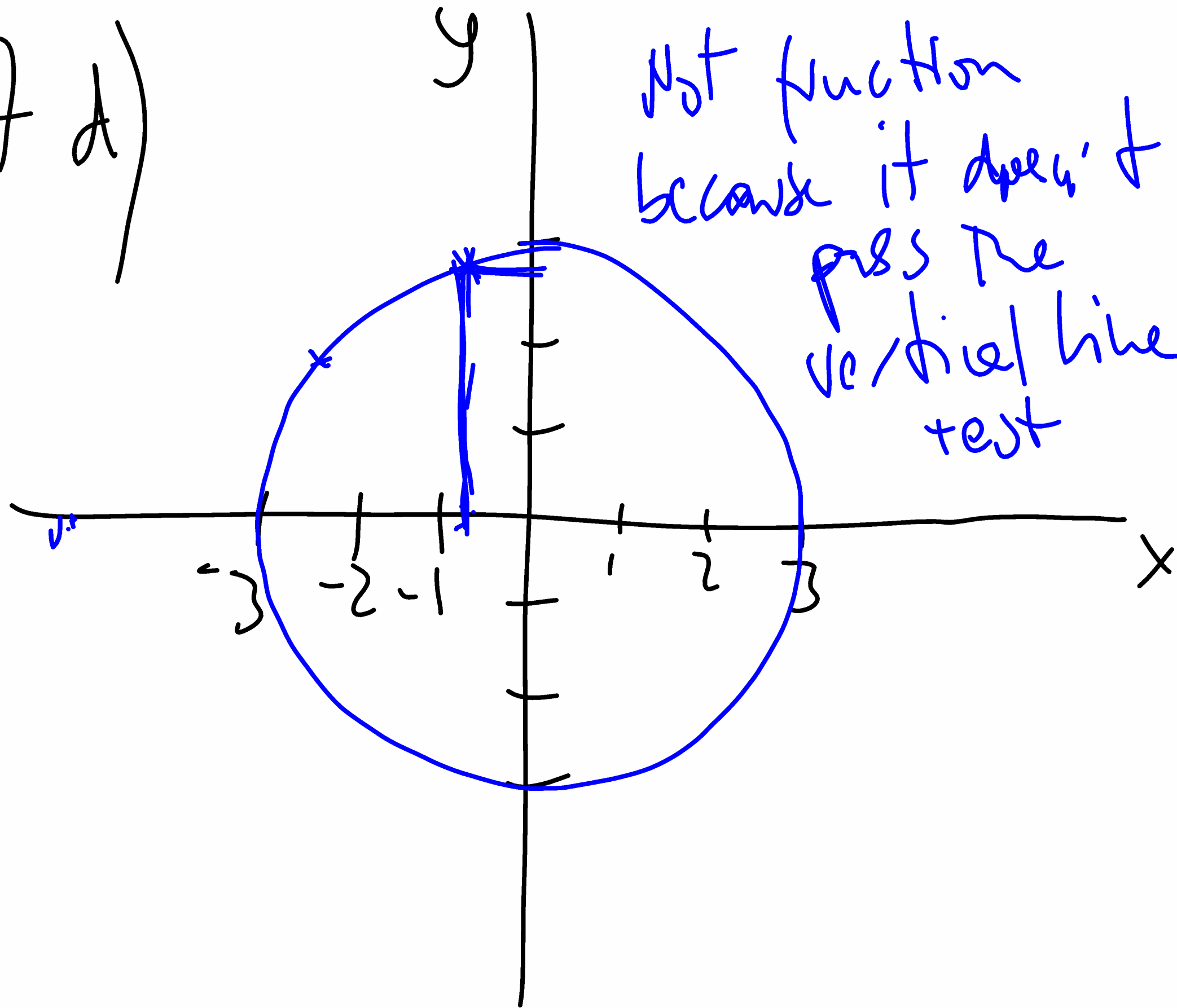


Domain = $\mathbb{R}$

Range = $\mathbb{R}$

(Because for any x we
have a point on the relation
the blue line
covers all y -values)
the blue line

7 d)



It's a Relation.
Domain = $\{-3 \leq x \leq 3\}$
Range = $\{-3 \leq y \leq 3\}$