

## QUADRATIC

$$y = x^2$$

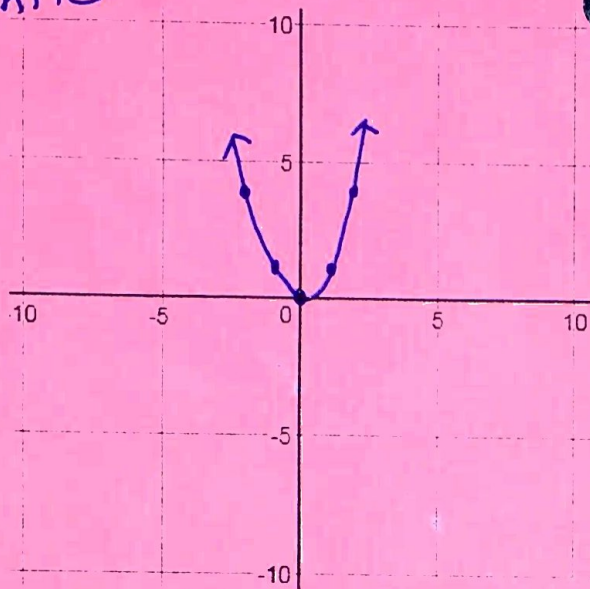
$$D: \{x \mid x \in \mathbb{R}\}$$

$$R: \{y \mid y \geq 0\}$$

FUNCTION - yes

EVEN

1:1 - no



## SQUARE ROOT

$$y = \sqrt{x}$$

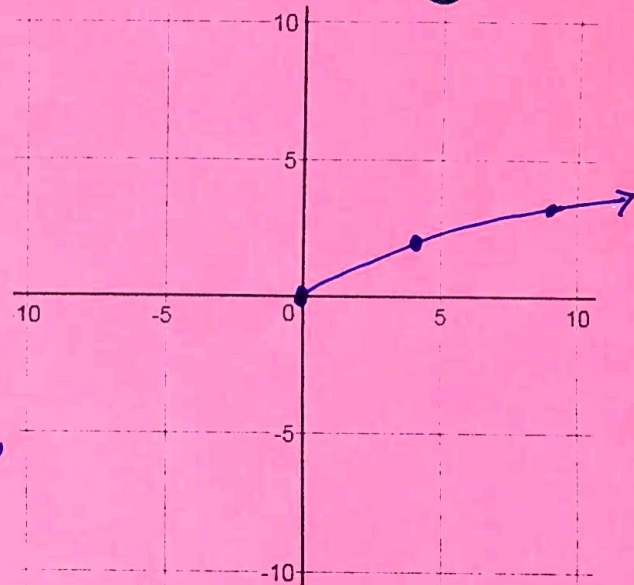
$$D: \{x \mid x \geq 0\}$$

$$R: \{y \mid y \geq 0\}$$

FUNCTION - yes

NEITHER

ONE-TO-ONE - yes



## ABSOLUTE VALUE

$$y = |x|$$

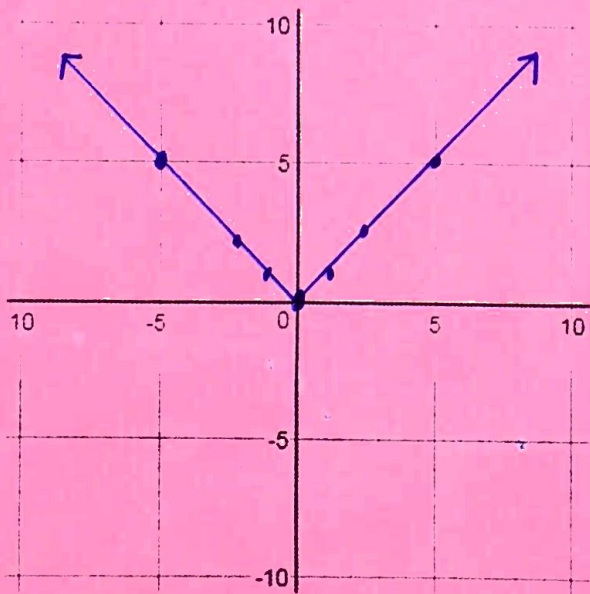
$$D: \{x \mid x \in \mathbb{R}\}$$

$$R: \{y \mid y \geq 0\}$$

FUNCTION - yes

one-to-one - no

Even



## CUBIC

$$y = x^3$$

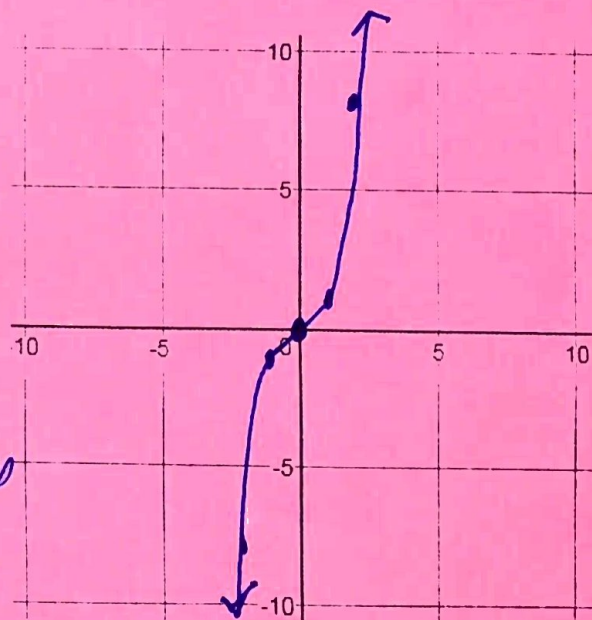
$$D: \{x \mid x \in \mathbb{R}\}$$

$$R: \{y \mid y \in \mathbb{R}\}$$

FUNCTION - yes

ODD

ONE-TO-ONE - yes



# CUBE ROOT

$$y = \sqrt[3]{x}$$

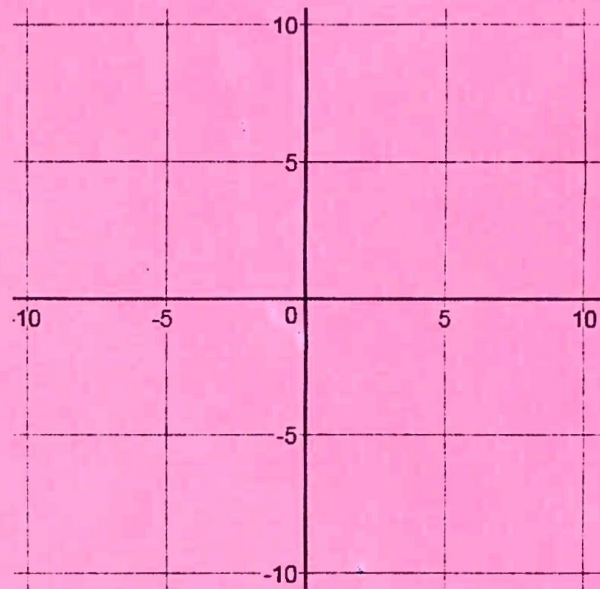
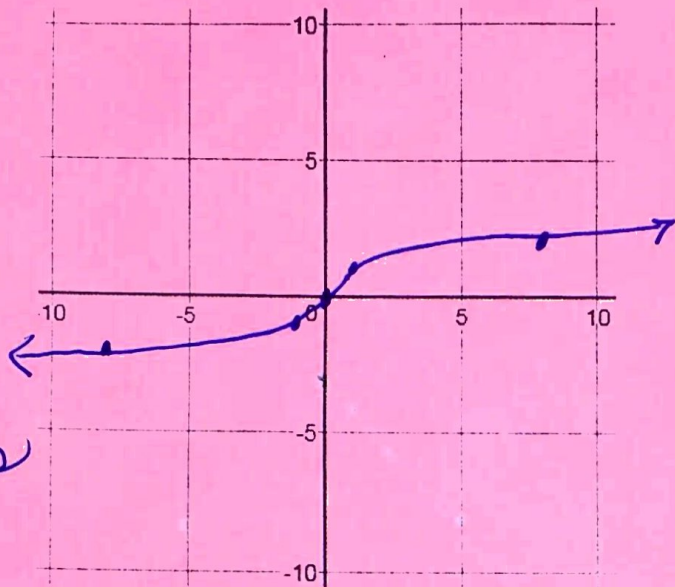
$$D: \{x \mid x \in \mathbb{R}\}$$

$$R: \{y \mid y \in \mathbb{R}\}$$

Function - yes

ODD

ONE-TO-ONE - yes



# LINEAR

$$y = x$$

$$D: \{x \mid x \in \mathbb{R}\}$$

$$R: \{y \mid y \in \mathbb{R}\}$$

Function - yes

ODD

One-to-one - yes

