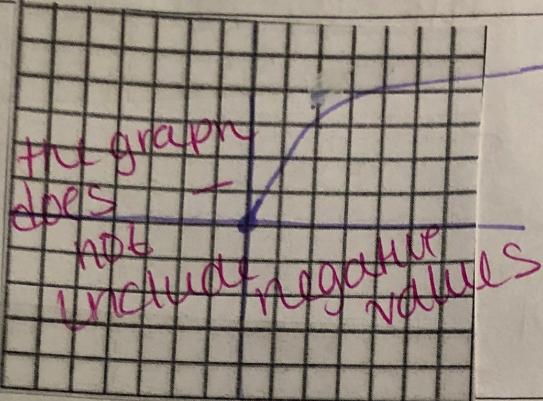


$y = \sqrt{x}$ Graph the given function. Investigate the function by making a summary statement (claim) and providing three mathematical reasons (evidence) to support your statement.



Claim:
The graph will never have negative x-values

$$y = \sqrt{4} = 2$$

$$y = \sqrt{16} = 4$$

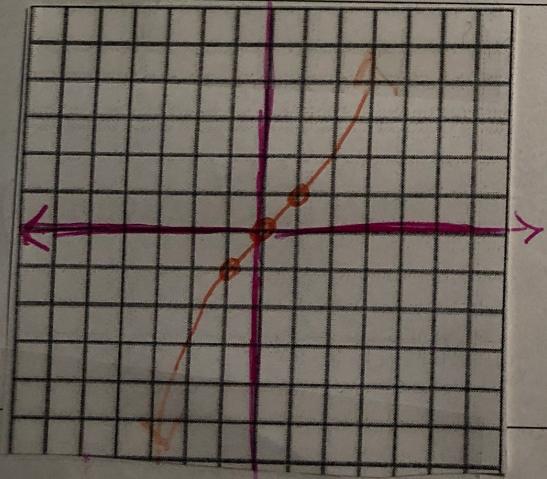
$$y = \sqrt{-4} = \text{No Real Solution}$$

X	Y
(-2)(-2)	= 4
so $\sqrt{4}$	is 2
-2	

$(-2)(+2)$ is
-4 → there is

no $\sqrt{-4}$! No
negative x-values

$y = x^3$ Graph the given function. Investigate the function by making a summary statement (claim) and providing three mathematical reasons (evidence) to support your statement.



The domain & Range values can be both positive & negative.

X	Y
1	1
(-1)	-1
2	8
-2	-8

x-values can be + &
y-values can be + and -

$$(2)^3 = 8$$

$$(-2)^3 = -8$$

$$(5)^3 = 125$$

$$(-5)^3 = -125$$