Thursday, October 22, 2020

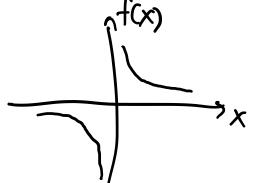
If
$$Q = f(t)$$
 then

Domain: the set of t values (input values)

Range: the set of output values.

Determine what the domain and range of a function is given a formula (algebraically).

e.g. $f(x) = \frac{1}{x}$

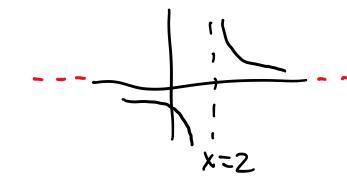


domain: X ≠ 0

in interval notation
$$(-\infty, 0) \cup (0, \infty)$$

 $-\infty < x < 0, 0 < x < \infty$

 $g(x) = \frac{1}{x-2}$



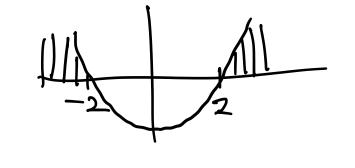
domain: x 7 2

range: y \u20.

$$h(x) = \frac{1}{\sqrt{x^2 - 4}}$$

the number under the square noot should be positive.

 $x^2 - 4 > 0$ (x-2)(x+2)>0



X72

or x<-2