



**Math Virtual Learning**

# **Algebra 2/Honors Algebra 2**

**May 19, 2020**




Lesson: May 19, 2020

**Objective/Learning Target:**

Students will practice graphing rational functions.

# Key Features on a Rational Function Graph

1


$$f(x) = \frac{1}{x}$$

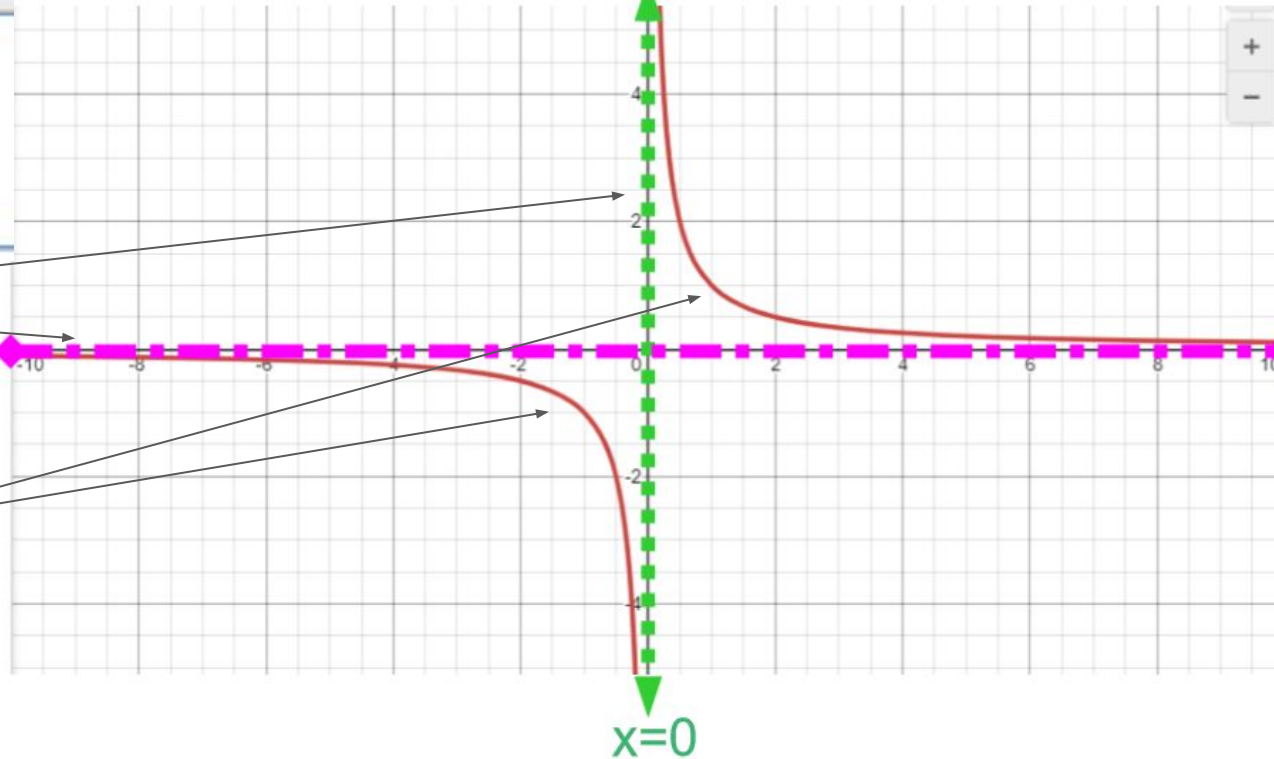
Vertical and horizontal asymptotes

$y=0$

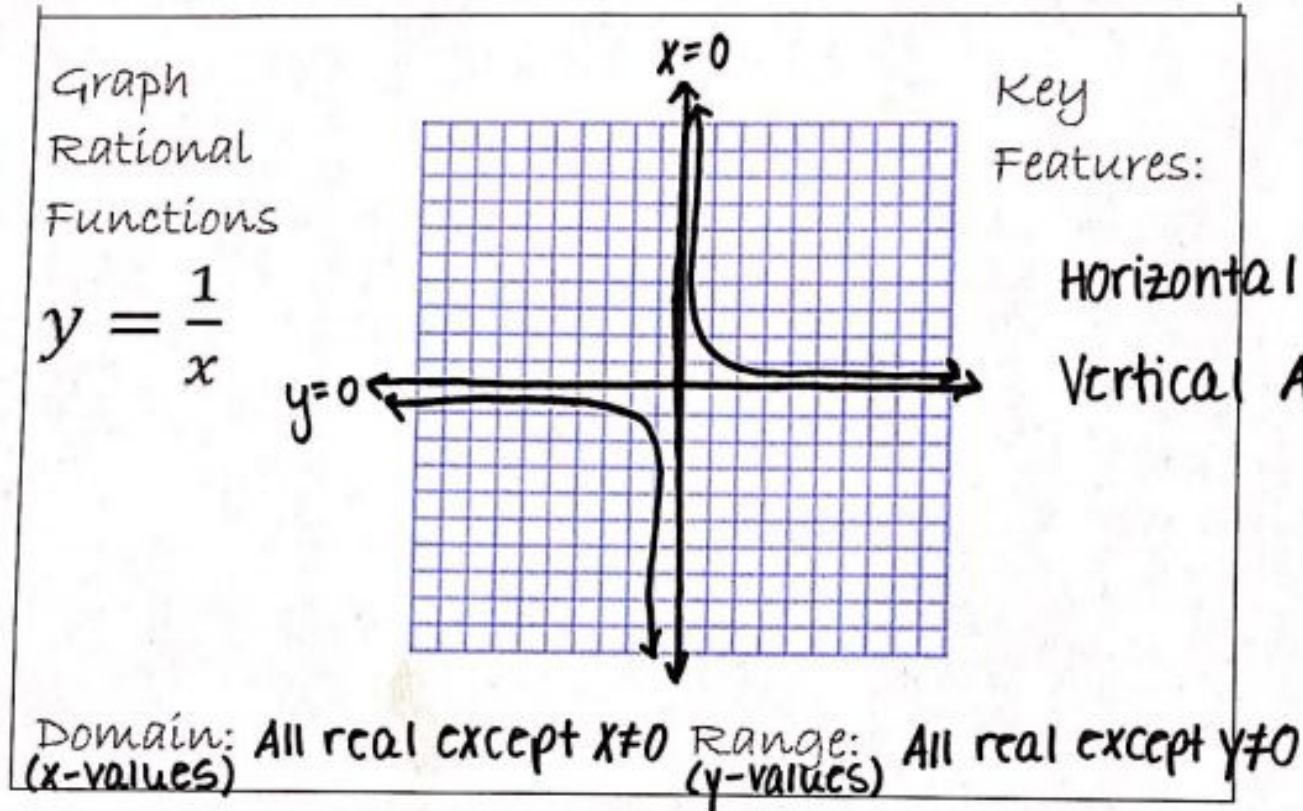
The graph is a hyperbola and has **two separate branches**.

Domain: all real numbers except  $x$  does not equal 0

Range: all real numbers except  $y$  does not equal 0.



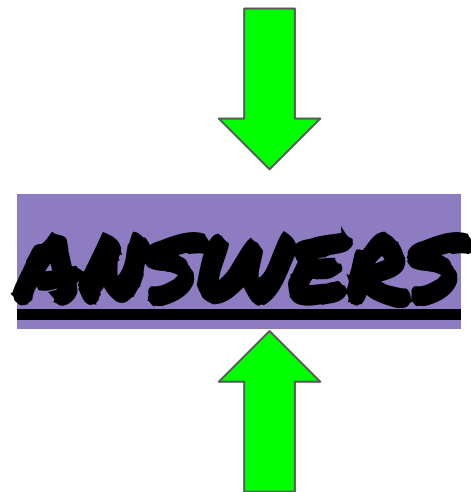
If you haven't already, write down these notes!



## Let's Practice:

Pull out a piece of paper and go to [desmos](https://desmos.com). Today you will be . . .

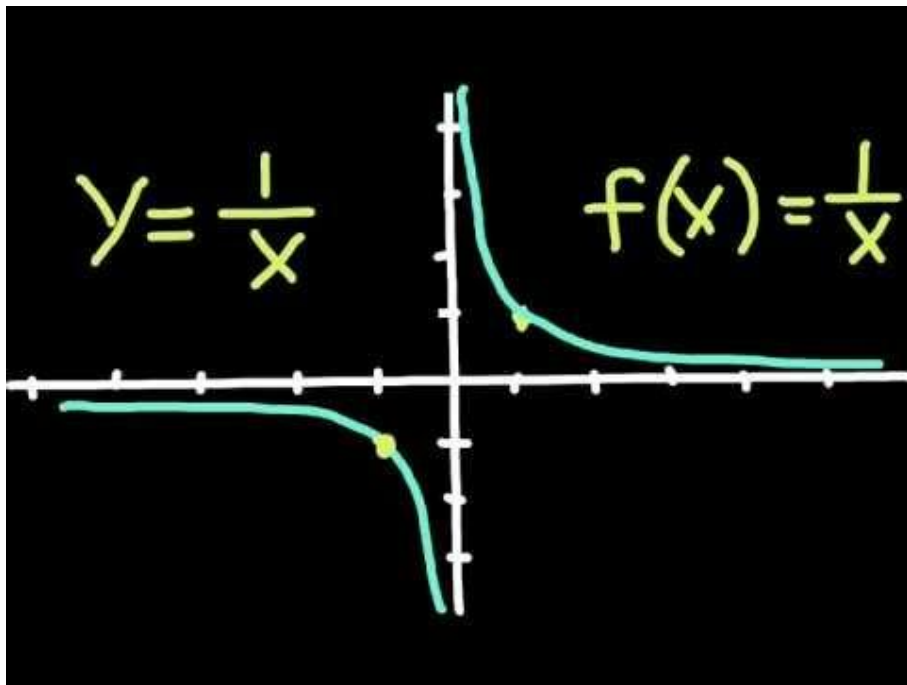
- Making sketches of rational functions and labeling asymptotes given a function
- Identifying domain and range of rational functions given a function



## Additional Practice:

Click on the links below to get additional practice and to check your understanding!

Transformation Video #1



Transformation Video #2

