Unit 04: Rational Functions

Content Area: **Mathematics**
Course(s): **PreCalc Trig H**
Time Period: **Semester 1**
Length: **2 weeks**
Status: **Published**

Standards - NJCCS/CCSS

CCSS.Math.Content.HSF-IF.C.7.d	Graph rational functions, identifying zeros and asymptotes when suitable factorizations are available, and showing end behavior.

Enduring Understandings

Student will have a comprehensive understanding of the characteristics and behaviors that impact the graph of a rational function.

Essential Questions

What is a rational function?

What are the important attributes of a rational function?

How do you graph a rational function?

Can the graph of a function cross an asymptote?

Knowledge and Skills

SWBAT graph rational functions.

SWBAT identify domain issues in rational functions.

SWBAT identify symmetry issues in rational functions.

SWBAT identify and have understanding of asymptotes in rational functions.

SWBAT find the zeros of rational functions.

Resources

Precalculus with Limits

Authors: Aufmann, Barker, Nation

Graphing Calculator

www.desmos.com

www.flipgrid.com

www.graphfree.com