

Topic: Unit 10: Rational Functions and Equations

Days: 13

Subject(s):

Grade(s):

Know:

Understand:

Do:

<p>Key vocabulary</p> <p>Values of rational functions</p> <p>Rational expressions</p> <p>Asymptotes to graph rational functions</p>	<p>Rational functions are used in applications to solve real world situations.</p>	<p>Identify and use asymptotes to graph rational functions</p> <p>Identify excluded values of rational functions</p> <p>Multiply and divide rational expressions</p> <p>Add and subtract rational expressions</p> <p>Add, subtract, multiply and divide mixed expressions and complex fractions</p> <p>Solve and use rational equations</p>
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Which standards are students learning in this unit?

MA.912.4.4 Divide polynomials by monomials and polynomials with various techniques, including synthetic division.

MA.912.A.5.1 Simplify algebraic ratios.

MA.912.A.5.2 Add, subtract, multiply, and divide rational expressions.

MA.912.A.5.3 Simplify complex fractions.

MA.912.A.5.5 Solve rational expressions.

MA.912.A.5.7 Solve real-world problems involving rational equations (mixture, distance, work, interest, and ratio).

MA.912.A.10.2 Decide whether a solution is reasonable in the context of the original situation.

MA.912.A.10.3 Decide whether a given statement is always, sometimes, or never true (statements involving linear expressions, equations, or inequalities).