



Solving Rational Equations and Inequalities



Lesson Objectives (p. 600):

Vocabulary

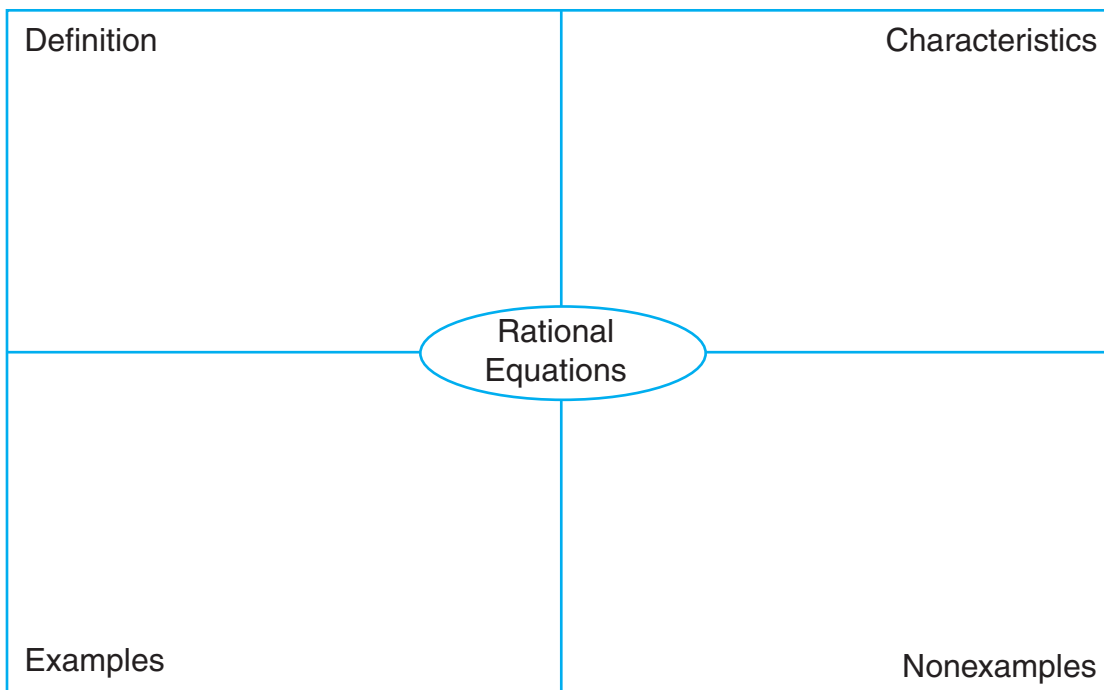
1. Rational equation (p. 600): _____

2. Extraneous solution (p. 600): _____

3. Rational inequality (p. 603): _____

Key Concepts

4. **Get Organized** In each box, write the appropriate information related to rational equations. (p. 604).





Solving Rational Equations and Inequalities



Lesson Objectives (p. 600):

solve rational equations and inequalities.

Vocabulary

1. Rational equation (p. 600): an equation containing one or more rational expressions.
2. Extraneous solution (p. 600): a solution of an equation derived from an original equation that is not a solution to the original equation.
3. Rational inequality (p. 603): an inequality containing one or more rational expressions.

Key Concepts

4. **Get Organized** In each box, write the appropriate information related to rational equations. (p. 604).

<p>Definition</p> <p>equations that contain rational expressions</p>	<p>Characteristics</p> <p>can be solved by multiplying both sides by the LCD of all the terms in the equation; may generate extraneous solutions when solving</p>
<p>Rational Equations</p>	
<p>Examples</p> $\frac{1}{x} = 5, \frac{x+3}{x-4} = \frac{x}{x-3}$	<p>Nonexamples</p> $\sqrt{x+2} = 6, x = 5$