Math 3 **5.4 Solving Rational Equations** Unit 5

*EQ: How do you solve rational equations and real-life application problems?*

**How to Solve Rational Equations**

1. Find a common denominators on each side of the equation
2. Simplify each side into one term, and then cross multiply.
3. Solve for the variable.
4. Check your answers for extraneous solutions!

**Example 1:** Solve 

**You Try!** Solve 

****

**Example 2:** Solve 

**You Try!** Solve

****

**Example 3:** Solve

**You Try!** Solve

****

**Example 4:** Solve

**You Try!** Solve

****

**Example 5:** Solve

**You Try!** Solve

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**Example 6:** Solve

**You Try!** Solve

**Directions:** Decide whether each of the following is an expression or an equation. If it is an equation, solve it. If it is an expression, write it as a single fraction.

1. ****
2. ****
3. ****
4. ****
5. 
6. 