Algebra 1.5 7.6 **Solving Equations Containing Rational Expressions**

* Solve equations containing rational expressions.

**Example 1:**  Simplify.

**Example 2:**  Simplify.

***Extraneous Solution*:** An apparent solution that does **not** solve its equation.

**To solve an equation that contains rational expressions:**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the rational expressions by multiplying both sides of the equation by their LCD.

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the equation using the methods we learned in Chapters 2 (linear equations) and 7 (quadratic equations).

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ your solution(s) in the original equation. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ any extraneous solutions.

**Example 3:**  Simplify.

**Example 4:**  Solve.

**Example 5:**  Simplify.

**Homework:** Pg 542 #16-56 by 4s