LESSON 8.3 **Assignment**   **8**

Name _____ Date _____

Things Are Not Always as They Appear
Solving Rational Equations

1. Solve $\dfrac{x}{x+3} = \dfrac{3}{x-5}$. Check your solutions.

2. Solve $\dfrac{2x}{6} = \dfrac{x^2 + 7x}{15}$. Check your solutions.

3. Solve $\dfrac{-6x + 36}{x^2 - 8x + 12} = \dfrac{x+2}{x-2}$. Check your solutions.

1

8 | **LESSON** **8.3** **Assignment** | *page 2*

4. Solve $\dfrac{2}{x^2 - 4} + \dfrac{3}{x + 2} = \dfrac{4}{x - 2}$. Check your solutions.

5. Solve $\dfrac{4}{x + 1} - \dfrac{x^2 - 5}{x^2 + 4x + 3} = \dfrac{5}{x + 3}$. Check your solutions.

2