Concepts of Algebra 2 Notes **Section 8-6: Solving Rational Equations**

***Objectives:**

*rational equation:

*Example of a Rational Equation (p. 542)

To solve a rational equation, clear the equation of denominators by multiplying by the LCD.

It is possible to introduce extraneous solutions.

Got It? **1.** What are the solutions of the rational equation?

a. $\frac{x-1}{x+2} = \frac{x^2+2x-3}{x+2}$ **b.** $\frac{x}{x+1} + \frac{3}{x+4} = \frac{x+3}{x+4}$

Got It? **2. a.** You ride your bike to a store, 4 mi away, to pick up things for dinner. When there is no wind, you ride at 10 mi/h. Today your trip to the store and back took 1 hour. What was the speed of the wind today?

Got It? **3.** What are the solutions of the rational equation $\frac{x+2}{1-2x} = 5$? Use a graphing calculator to solve.

Inclass: p. 546 #12, 20, 28
Homework: p. 546 #9-29(odd)
Interactmath: #9, 16, 17, 29