Integra	ted Math 3
Unit 7:	Modeling Rational Representations
7.0	

name:		
Date	Pariode	

Objective: to solve radical equations.

Vocabulary:

Radical Equation: An equation with a radical symbol (square root, cube root, etc.).

Extraneous Solution: A solution that emerges from the process of solving the problem, but is not a valid solution within the context of the problem – it may lead to an undefined or imaginary answer.

Steps for solving radical equations:

- 1. Isolate the radical on one side of the equation.
- 2. Square both sides to cancel the radical.
 - Note: You can have two answers when you take the square root of a number.
- 3. Solve for "x".

Examples: Solve each of the following radical equations. Be sure to check your solutions.

a.
$$2x = \sqrt{x+5}$$

b. $x - 3 = \sqrt{x + 3}$