**Name: Date:**

**Topic: 5.4 Solving Radical Equations (Class Notes)**

**Essential Question:**

Questions/Key Ideas Notes/Problems/Work

Steps to Solve To solve a radical equation:

* Isolate the radical expression to one side of the equal sign
* Eliminate the radical by squaring both sides of the equal sign for square roots or cubing both sides for cube roots
* Solve for x
* Check your solution(s) for extraneous solutions by plugging into the original equation

Basic Radical Solve the given radical equations. Check your solutions.

Equations a. b.

(Example 1)

Radical Equations Solve the given radical equations. Check your solutions.

that involve FOIL a. b.

and/or factoring

(Example 2)

Questions/Key Ideas Notes/Problems/Work

Radical Equations with Solve the given radical equations. Check your solutions.

2 Radicals a. b.

(Example 3)

Equations with Solve the given equations. Check your solutions.

Rational Exponents a. b.

(Example 4)

Summary (Address EQ): (write in another sheet of paper, attach to notes)