Review Radical Operations

- Simplify: $3\sqrt{5} + 5\sqrt{5}$
- Simplify: $5\sqrt{3} - 2\sqrt{48}$
- Simplify: $\sqrt{6}(3 - \sqrt{3})$
- Simplify: $(2\sqrt{8} - 3\sqrt{2})(3\sqrt{8} + \sqrt{2})$
- Write in most simplified form: $\frac{3}{1-\sqrt{2}}$

*To Solve Radical Equations*:

- Isolate the radical on one side of the equation
- Raise each side to the power suggested by the index
- Solve
    - CHECK for *extraneous* solutions!!!!

*To Solve Radical Equation Involving 2 Radical Expressions or Exponents:*

- Isolate one of the radical terms (Pick the more difficult term)
- Eliminate that term
- Simplify
- Eliminate 2nd radical term
    - CHECK for *extraneous* solutions!!!

*Examples:*

- What is the solution of $\sqrt{x + 4} + 6 = 7$?

- What is the solution of $\sqrt{5x + 14} = x$?