Algebra 2 w/ Trig

3.2 Apply Properties of Rational Exponents

Warm-Up:

**Simplify the expression.**

    

----------------------------------------------------------------NOTES--------------------------------------------------------------------------

Example 1: Use Properties of Exponents

**Use the properties of rational exponents to simplify the expression.**



Example 2: Apply Properties of Exponents



YOU TRY:



Example 3: Use Properties of Radicals Example 4: Write Radicals in Simplest Form

**Use the properties of radicals to simplify the expression. Write the expression in simplest form.**



Example 5: Add and Subtract Like Radicals and Roots

**Simplify the expression.**



YOU TRY:

**Simplify the expression.**



Hw: Section 3.2 p. 176 #15-19, 24-26, 32-36

Algebra 2 w/ Trig

3.2 Day 2!

Warm Up:

**Simplify the expression. Assume all variables are positive.**



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Example 6: Simplify Expressions with Variables

**Simplify the expression. Assume all variables are positive.**







Example 7: Write Variable Expressions in Simplest Form

**Write the expression in simplest form. Assume all variables are positive.**

Example 8: Add and Subtract Expressions with Variables

**Perform the indicated operation. Assume all variables are positive.**

YOU TRY:

**Simplify the expression. Assume all variables are positive.**



KEEP GOING

**Simplify the expression. Assume all variables are positive.**

**1. 2. 3.**

**4. What is the length of the hypotenuse of a right triangle if the legs have lengths** *x* **and**2*x?*

Hw: Section 3.2 p. 176 #43-48, 52-54, 60-62