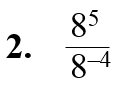
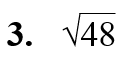
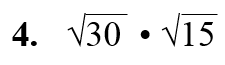
Algebra 2 w/ Trig

3.2 Apply Properties of Rational Exponents

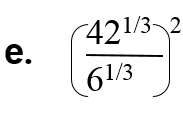
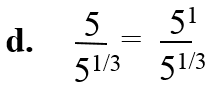
Warm-Up:

**Simplify the expression.**

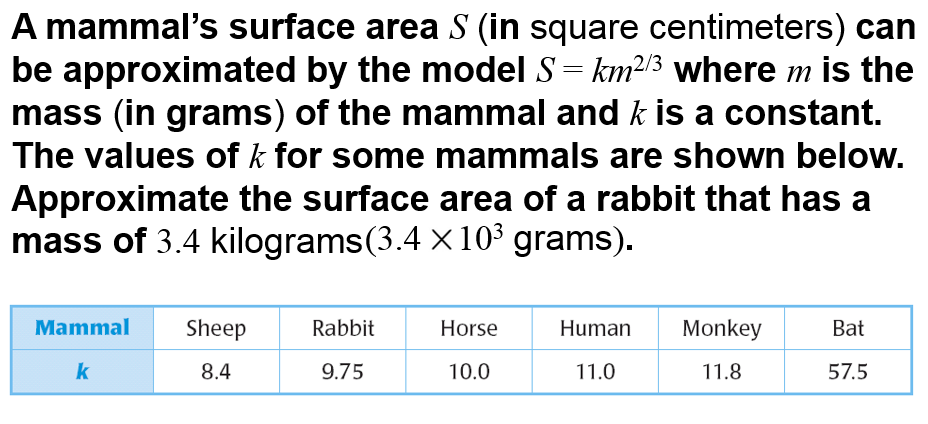
----------------------------------------------------------------NOTES--------------------------------------------------------------------------

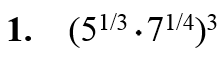
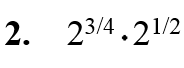
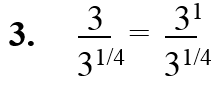
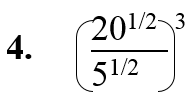
Example 1: Use Properties of Exponents

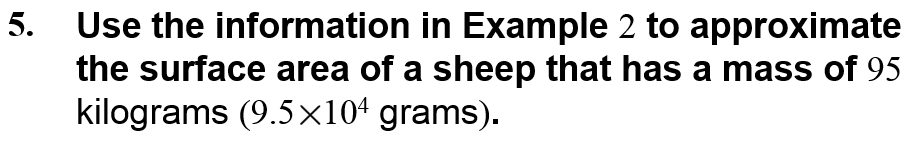
**Use the properties of rational exponents to simplify the expression.**



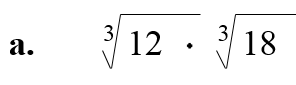
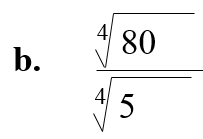
Example 2: Apply Properties of Exponents

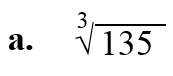
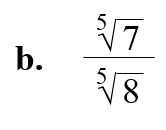


YOU TRY:

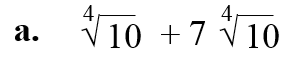


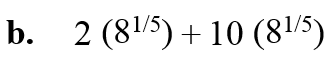
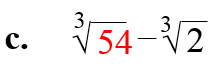
Example 3: Use Properties of Radicals Example 4: Write Radicals in Simplest Form

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

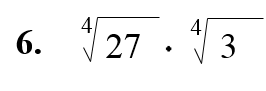
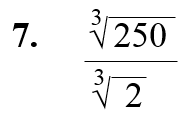


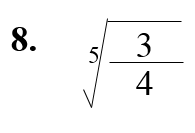
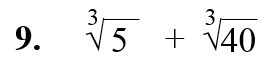
Example 5: Add and Subtract Like Radicals and Roots

**Simplify the expression.**



YOU TRY:

**Simplify the expression.**

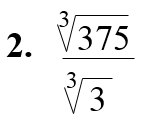
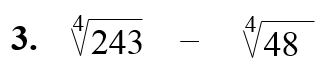


Hw: Section 3.2 p. 176 #15-19, 24-26, 32-36

Algebra 2 w/ Trig

3.2 Day 2!

Warm Up:

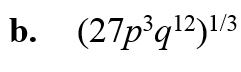
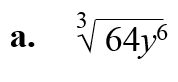
**Simplify the expression. Assume all variables are positive.**

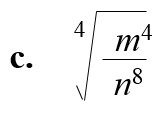


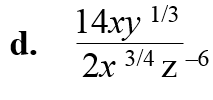
--------------------------------------------------------------NOTES----------------------------------------------------------------------------

Example 6: Simplify Expressions with Variables

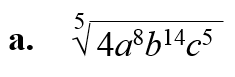
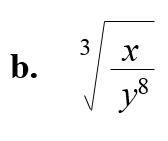
**Simplify the expression. Assume all variables are positive.**



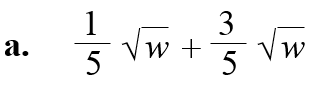
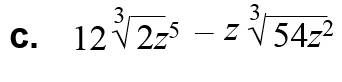
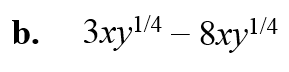




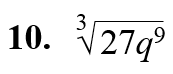
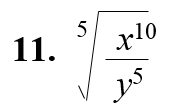
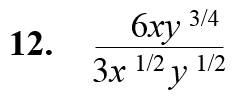
Example 7: Write Variable Expressions in Simplest Form

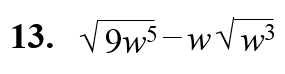
**Write the expression in simplest form. Assume all variables are positive.**

Example 8: Add and Subtract Expressions with Variables

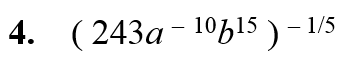
**Perform the indicated operation. Assume all variables are positive.**

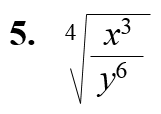
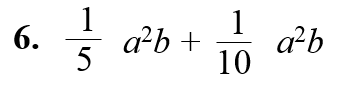
YOU TRY:

**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