Algebra 2 w/ Trig

5.5 Adding and Subtracting Rational Expressions

Warm-Up:





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Example 1: Add or Subtract with Like Denominators

**Perform the indicated operation.**

 

YOU TRY: **Perform the indicated operation and simplify.**

   

Example 2: Find a Least Common Multiple (LCM) Example 3: Add with Unlike Denominators

**Find the least common multiple of** 4*x*2 –16 **and** 6*x*2 –24*x* + 24.

Example 4: Subtract with Unlike Denominators



YOU TRY:

**Find the least common multiple of the polynomials.**

**5.** 5*x*3 **and** 10*x*2–15*x* ***6.*** *8x – 16* ***and*** *12x2 + 12x – 72*

**Add or subtract with unlike denominators.**



Hw: Section 5.5 p. 340 #3-23 odds

5.5 Day 2!

Warm Up: **Add or subtract with unlike denominators.**

 

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Example 5: Simplify a Complex Fraction (Method 1)

**Let** *f***be the focal length of a thin camera lens,** *p***be the distance between an object being photographed and the lens, and *q* be the distance between the lens and the film. For the photograph to be in focus, the variables should satisfy the *lens equation* below. Simplify the complex fraction.**



Example 6: Simplify a Complex Fraction (Method 2) YOU TRY:



  

KEEP GOING:

1. **Find the least common multiple of** 3*x*2 – 6*x* – 45 **and** 2*x*2 – 20*x* + 50.

 



Hw: Section 5.5 p. 340 #27-33 all