Algebra 2

7-04 Adding and Subtracting Rational Expressions

Adding and Subtracting

- 1. Need ______(LCD)
 - a. If LCD already present, add or subtract _____ only
- 2. To get fractions with LCD
 - a. _____ all denominators
 - b. LCD is the ______ of the highest _____ of each _____ in either expression
 - c. Whatever you _____ the denominator by, multiply the _____ also

Find the least common multiple of 5x and 5x - 10.

Find the least common multiple of $2x^2 - 18$, $x^2 + x - 12$

$$\frac{15}{4x} + \frac{5}{4x}$$

$$\frac{5x}{x+3} + \frac{15}{x+3}$$

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Name: _____

Simplifying Complex Fractions

- 1. Fractions within _____
- 2. Follow ______ (groups first)
- 3.

$$\frac{\frac{1}{3x^2 - 3}}{\frac{5}{x + 1} - \frac{x + 4}{x^2 - 3x - 4}}$$

$$\frac{3-6}{10+\frac{4}{x}}$$