

8-2 Adding & Subtracting Rational Expressions

- find LCM of rational expressions.
- add and subtract rational expressions.
- A.APR.7

Examples with Fractions

1. $\frac{5}{7} + \frac{1}{7}$

2. $\frac{2}{3} + \frac{4}{5}$

Adding & Subtracting Rational Expressions

- factor each
- find the
- multiply each fraction by the _____ of the new LCD.
- add/subtract numerators.

Add or subtract the following rational expressions.

1. $\frac{9}{10a} - \frac{4a}{5b}$

2. $\frac{3y+1}{2y-10} + \frac{1}{y^2-2y-15}$

Add or subtract the following rational expressions.

3. $\frac{x+1}{x^2-9} - \frac{x+5}{2x-6}$

4. $\frac{2}{a+7} + \frac{5}{-7-a}$

Complex Fractions:

Method 1

simplify numerator &
denominator, then divide.

$$5a. \frac{\frac{2}{x} - 1}{\frac{1}{y} - \frac{3}{x}}$$

Method 2

find the LCD of all denominators
and multiply numerator &
denominator by LCD.

$$5b. \frac{\frac{2}{x} - 1}{\frac{1}{y} - \frac{3}{x}}$$

Attachments

9-1HW.notebook