

Adding and Subtracting Rational Expressions with a Common Denominator

1. Add the rational expressions.  
(similar to p.460 #24)

$$\frac{15x - 20}{21x - 7} + \frac{15}{21x - 7}$$

2. Add the rational expressions.  
(similar to p.460 #26)

$$\frac{-70}{3x - 10} + \frac{21x}{3x - 10}$$

3. Add the rational expressions.  
(similar to p.460 #30)

$$\frac{2x^2 - 5x}{2x - 12} + \frac{3x^2 - 30x + 30}{2x - 12}$$

4. Add the rational expressions.  
(similar to p.460 #32)

$$\frac{8x}{72x^2 + 25x + 2} + \frac{1}{72x^2 + 25x + 2}$$

5. Subtract the rational expressions.  
(similar to p.460 #42)

$$\frac{2x^2 + 5x}{x^2 - 16} - \frac{x^2 - 7x - 32}{x^2 - 16}$$

6. Subtract the rational expressions.  
(similar to p.460 #44)

$$\frac{5x^2 - 9x + 2}{x^2 - 15x + 50} - \frac{4x^2 - 2x + 32}{x^2 - 15x + 50}$$

7. Add or subtract the rational expressions.  
(similar to p.460 #54)

$$\frac{x^2 - 7x}{x^2 - 9} + \frac{24 - 12x}{9 - x^2}$$