

Unit 3---LESSON 2-Adding and Subtracting Rational Expressions

Steps for +/- Rational Expressions:

1. Factor
2. Find Common Denominator (both Denominators must be the same)
3. Add or Subtract (Denominators stay the same +/- numerator)
4. Simplify numerator

EXAMPLES:

1. $\frac{3x}{7} - \frac{5x}{x+5} =$ _____

2. $\frac{2x}{4x+8} + \frac{8x}{2x} =$ _____

3. $\frac{7x}{x-5} - \frac{2x}{5x+6} =$ _____

4. $\frac{7x}{3} + \frac{3}{2x^2+2x} =$ _____

5. $\frac{1}{x^2+5x+4} + \frac{5x}{3x+3} =$ _____

6. $\frac{7x}{5x^2-125} - \frac{4}{3x+15} =$ _____

7. $\frac{-2}{3x^2+36x} - \frac{3x}{6x+30} =$ _____

8. $\frac{2x}{x^2-2x-3} - \frac{3}{4x+4} =$ _____

9. $\frac{1}{x^2-4x-12} + \frac{3x}{4x+8} =$ _____

Unit 3---Lesson 2-CLASSWORK/HOMEWORK

1. $\frac{3x+y}{12y} + \frac{x-3y}{12y} =$ _____

4. $\frac{7}{3} - \frac{8}{12x-8} =$ _____

7. $\frac{5n+5}{5n^2+35n-40} + \frac{7n}{3n} =$ _____

2. $\frac{6x-5y}{36xy} - \frac{3x-6y}{36xy} =$ _____

5. $6 - \frac{x+5}{(7x-5)(x+4)} =$ _____

8. $\frac{7n}{n+1} + \frac{8}{n-7} =$ _____

3. $\frac{4v}{2} + \frac{3v}{3v^2+9v} =$ _____

6. $\frac{3}{n-5} + \frac{6}{3n-8} =$ _____

9. $\frac{2}{3x^2+12x} + \frac{8}{2x} =$ _____

