

Name _____

Rational Expression Worksheet #9: Adding/Subtracting

Add or subtract these rational expressions.

1. $\frac{9}{15x} + \frac{2}{15x}$

2. $\frac{5x}{7} - \frac{2x}{7}$

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

4. $\frac{2}{5x+9} + \frac{x}{5x+9}$

5. $\frac{5}{8a} - \frac{2}{8a}$

6. $\frac{7}{x-5} - \frac{4}{x-5}$

7. $\frac{y}{y^2-9} + \frac{5}{y^2-9}$

8. $\frac{8}{2x^2} + \frac{3}{2x^2}$

9. $\frac{2}{x+1} + \frac{1}{x+1}$

10. $\frac{x-1}{3x+4} + \frac{2x+9}{3x+4}$

11. $\frac{5x}{3x^2} - \frac{4}{3x^2}$

12. $\frac{7x+4}{x^2+3x+2} - \frac{3x-2}{x^2+3x+2}$

Name _____

Rational Expression Worksheet #10: Adding/Subtracting

Add or subtract these rational expressions. Show your common denominators and numerators on this sheet or separate paper. **FACTOR** denominators when possible.

1. $\frac{5}{8} - \frac{3}{8x}$

2. $\frac{2}{4x+12} + \frac{7}{x+3}$

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

4. $\frac{3}{y+5} + \frac{y}{y^2+7y+10}$

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

6. $\frac{2}{x-3} - \frac{1}{x+7}$

Name _____

Rational Expression Worksheet #11: Adding/Subtracting

Add or subtract these rational expressions. Show your common denominators and numerators on this sheet or separate paper. **FACTOR** denominators when possible.

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

2. $\frac{2}{5x-20} + \frac{7}{x-4}$

3. $\frac{7}{x+2} - \frac{4}{3x+6}$

4. $\frac{3}{y+3} + \frac{2y}{y^2+7y+12}$

5. $\frac{5}{4x} + \frac{7}{12x}$

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

7. $\frac{3x}{x-6} + \frac{6x}{4x-24}$

8. $\frac{5}{y+10} + \frac{4y}{y^2+12y+20}$