

Algebra 2  
Adding/Subtracting Rational Expressions

Name: \_\_\_\_\_  
Period: \_\_\_\_\_

Simplify.

1.  $\frac{4x+1}{3x} + \frac{x-5}{3x}$
2.  $\frac{x^2+4x-7}{2} - \frac{3x}{2}$
3.  $\frac{4x^2-1}{3x-1} + \frac{3-7x-x^2}{3x-1}$
4.  $\frac{3x^2+7x+8}{2x+1} - \frac{x^2+5}{2x+1}$
5.  $\frac{x^2+5x-10}{x+5} + \frac{2x^2+8x}{x+5}$
6.  $\frac{x-1}{x^2+3x+2} + \frac{x}{x+1}$
7.  $\frac{3}{x^2-4} + \frac{2}{x-2}$
8.  $-\frac{8x}{x^2-36} + \frac{x-2}{x-6}$
9.  $\frac{5x}{x-1} + \frac{3}{x}$
10.  $\frac{2}{x+3} - \frac{4}{x+1}$
11.  $\frac{3x-2}{x+2} + \frac{2x}{4x-1}$
12.  $\frac{x-2}{x+6} + \frac{x+1}{x-5}$
13.  $-\frac{4}{x^2+3x+2} + \frac{2}{x^2+2x}$
14.  $\frac{x}{x^2-2x-48} + \frac{4}{x^2-64}$
15.  $\frac{2}{x^2-x-20} + \frac{3}{x^2+7x+12}$