

## Adding/Subtracting Rational Expressions

Class: \_\_\_\_\_ Period: \_\_\_\_\_

Simplify each expression.

1)  $\frac{a+1}{3a} + \frac{2a+3}{3a}$

2)  $\frac{a+3}{3a+6} - \frac{a+1}{3a+6}$

3)  $\frac{2}{x^2+3x+2} + \frac{3x+1}{x^2+3x+2}$

4)  $\frac{2}{3x^2+3x+6} + \frac{x+3}{3x^2+3x+6}$

5)  $\frac{x+3}{3x+6} + \frac{x+2}{3x+6}$

6)  $\frac{x+2}{2x^2+3x+2} - \frac{x+3}{2x^2+3x+2}$

7)  $\frac{2}{x+3} - \frac{2}{x}$

8)  $4 - \frac{x+3}{(2x-3)(x+2)}$

9)  $\frac{2}{x+3} + \frac{2}{x+4}$

10)  $\frac{2}{3x^2+6x} - \frac{2}{3}$

11)  $\frac{2}{3} + \frac{2}{2x-3}$

12)  $\frac{2}{x+3} + \frac{2x}{2x+4}$

13)  $\frac{2x}{3x+6} + \frac{2x}{3x+3}$

14)  $\frac{2}{3x^2+6x} + \frac{2}{3}$