

## Adding/Subtracting Rational Expressions

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

Simplify each expression.

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

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

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

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

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

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

7)  $\frac{2}{a+1} - \frac{2}{1}$

8)  $2 - \frac{a+1}{(2a+3)(a+2)}$

9)  $\frac{1}{a+1} + \frac{1}{a+1}$

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

11)  $\frac{2}{1} + \frac{2}{(2a+1)}$

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

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

14)  $\frac{2}{2a^2+3a} + \frac{2}{2a}$