

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

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

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

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

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

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

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

11) $\frac{2}{2} + \frac{2}{(2x+2)}$

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

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

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