

**Adding + Subtracting Rational Expressions**

Simplify each expression.

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

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

3)  $\frac{a+2b}{a^2} - \frac{3a+3b}{a^2}$

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

5)  $\frac{3a-3}{a^2+3a} + \frac{a-3}{a^2+3a}$

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

7)  $\frac{a-3}{3a^2+3a} + \frac{3a}{3a^2+3a}$

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

9)  $\frac{3a}{3a} - \frac{a+3}{3a+3a}$

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