

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