

Adding and Subtracting Rational Expressions

Date _____ Period _____

Simplify each expression.

1) $\frac{x-4y}{8y^3} + \frac{x-5y}{8y^3}$

2) $\frac{2x-4y}{10x^2} + \frac{x+2y}{10x^2}$

3) $\frac{a+6b}{24b} - \frac{6a+4b}{24b}$

4) $\frac{4}{6} - \frac{2u}{3v}$

5) $\frac{5m}{4m} - \frac{6}{6n^3}$

6) $\frac{5x}{6y} + \frac{3x}{4y}$

$$7) \frac{6x-1}{36x^2+36x} + \frac{x+5}{36x^2+36x}$$

$$8) \frac{v-3}{v^2+5v+6} + \frac{v+6}{v^2+5v+6}$$

$$9) \frac{2n+3}{2n-4} - \frac{2n+5}{2n-4}$$

$$10) \frac{3}{m+2} + \frac{2m}{5m-6}$$

$$11) \frac{4r}{5r+4} - \frac{4}{5}$$

$$12) \frac{x-5}{x+2} - \frac{3x+5}{6x}$$