

## Adding/Subtracting Rational Expressions

**Simplify each expression.**

1)  $\frac{u-v}{8v} + \frac{6u-3v}{8v}$

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

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

4)  $\frac{5}{10n^2+16n+6} + \frac{n-6}{10n^2+16n+6}$

5)  $\frac{r+6}{3r-6} + \frac{r+1}{3r-6}$

6)  $\frac{x+2}{2x^2+13x+20} - \frac{x+3}{2x^2+13x+20}$

7)  $\frac{6}{x-1} - \frac{5x}{4}$

8)  $6 - \frac{x+5}{(7x-5)(x+4)}$

9)  $\frac{3}{x+7} + \frac{4}{x-8}$

10)  $\frac{3}{4v^2+4v} - \frac{7}{2}$

11)  $\frac{7}{3} - \frac{8}{12x-8}$

12)  $\frac{5}{n+5} + \frac{4n}{2n+6}$

13)  $\frac{2x}{5x+4} + \frac{6x}{2x+3}$

14)  $\frac{2}{3x^2+12x} + \frac{8}{2x}$