

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

$$15) \frac{7n}{n+1} + \frac{8}{n-7}$$

$$16) \frac{2}{n+8} + \frac{4}{n+1}$$

$$17) \frac{3}{8} - \frac{3}{3x+4}$$

$$18) \frac{3}{b-8} + \frac{7}{b+3}$$

$$19) \frac{3}{x+6} + \frac{7}{x-2}$$

$$20) \frac{4}{x+1} - \frac{2}{x+2}$$

$$21) \frac{5n+5}{5n^2+35n-40} + \frac{7n}{3n}$$

$$22) \frac{3}{n-5} + \frac{6}{3n-8}$$

$$23) \frac{\frac{25}{4}}{\frac{1}{5} - \frac{4}{25}}$$

$$24) \frac{8}{\frac{4}{9} + \frac{16}{9}}$$

$$25) \frac{\frac{a}{25} - \frac{a}{5}}{a}$$

$$26) \frac{\frac{5}{4}}{\frac{5}{m} - \frac{4}{m}}$$