

Adding Rational Expressions

Simplify each expression.

1) $\frac{u+4v}{6vu} + \frac{u+2v}{6vu}$

2) $\frac{x+6y}{30xy^2} + \frac{4}{30xy^2}$

3) $\frac{6x-2y}{4} + \frac{2x}{2x^2}$

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

5) $\frac{3}{4n} + \frac{m+3n}{5}$

6) $\frac{3u}{3u^2} + \frac{3}{6}$

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

8) $\frac{2r+2}{4r+16} + \frac{r+4}{4r+16}$

$$9) \frac{2n}{3} + \frac{6n}{3n^2 - 6n}$$

$$10) \frac{6k}{k-1} + \frac{2}{k-5}$$

$$11) \frac{6x+3}{2x-4} + \frac{5}{3x}$$

$$12) \frac{2k}{2} + \frac{k+2}{3k^2 - 18k}$$

$$13) \frac{5}{2} + \frac{2}{2x^2 - 2x - 4}$$

$$14) \frac{2}{3} + \frac{5}{3x^2 + 6x + 3}$$

$$15) \frac{4}{3} + \frac{n+3}{n^2 + 9n + 18}$$

$$16) \frac{3}{p+3} + \frac{5}{3p+15}$$