

Adding and Subtracting Rationals

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Simplify each expression.

1) $\frac{m + 5n}{3m} + \frac{4m}{6}$

2) $\frac{5}{6} - \frac{4}{6x^2y}$

3) $\frac{2x}{36y} - 5$

4) $\frac{4a}{4} - \frac{3}{3a^2}$

5) $2v - \frac{v - 5}{2v^2 - 13v + 15}$

6) $\frac{3}{k - 3} - \frac{6}{5}$

$$7) \frac{2p}{p-5} + \frac{4}{p+3}$$

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

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

$$10) \frac{3}{n-4} + \frac{4n}{n-3}$$

$$11) \frac{3}{a+6} + \frac{2}{a-6}$$

$$12) \frac{2}{5x-3} - \frac{4}{6}$$

Answers to Adding and Subtracting Rationals (ID: 1)

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

$$2) \frac{5x^2y - 4}{6x^2y}$$

$$3) \frac{-90y + x}{18y}$$

$$4) \frac{a^3 - 1}{a^2}$$

$$5) \frac{4v^2 - 6v - 1}{2v - 3}$$

$$6) \frac{33 - 6k}{5(k - 3)}$$

$$7) \frac{2p^2 + 10p - 20}{(p - 5)(p + 3)}$$

$$8) \frac{-20x + 30 - 5x^2}{(x + 6)(x + 5)}$$

$$9) \frac{11x - 32}{10(x - 2)}$$

$$10) \frac{-13n - 9 + 4n^2}{(n - 4)(n - 3)}$$

$$11) \frac{5a - 6}{(a - 6)(a + 6)}$$

$$12) \frac{12 - 10x}{3(5x - 3)}$$