Adding Rational Numbers

Adding rational numbers follows the same rules as adding numerical fractions.

$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

Find the Least Common Denominator (LCD), rewrite the addition equation, and solve.

$$\frac{1}{9} + \frac{5}{12}$$

Find the Least Common Denominator (LCD), rewrite the addition equation, and solve.

$$\frac{4}{21} + \frac{7}{15}$$

Find the Least Common Denominator (LCD), rewrite the addition equation, and solve.

$$\frac{2}{7x^2} + \frac{3x}{14}$$

Find the Least Common Denominator (LCD), rewrite the addition equation, and solve.

$$\frac{5x}{27} + \frac{4x}{15}$$

Find the Least Common Denominator (LCD), rewrite the addition equation, and solve.

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

Find the Least Common Denominator (LCD), rewrite the addition equation, and solve.

$$\frac{6}{x+1}+\frac{5x}{4}$$

Find the Least Common Denominator (LCD), rewrite the addition equation, and solve.

$$\frac{7}{3} + \frac{3}{12x - 8}$$

Find the Least Common Denominator (LCD), rewrite the addition equation, and solve.

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

Find the Least Common Denominator (LCD), rewrite the addition equation, and solve.

$$\frac{x+2}{2x-2}+\frac{-2x-1}{x^2-4x+3}$$

Subtracting Rational Numbers

Subtracting rational numbers follows the same rules as subtracting numerical fractions.

$$\frac{a}{c} - \frac{b}{c} = \frac{a-b}{c}$$

Find the Least Common Denominator (LCD), rewrite the addition equation, and solve.

$$\frac{3}{4x} - \frac{x^2}{28}$$

Find the Least Common Denominator (LCD), rewrite the addition equation, and solve.

$$\frac{x}{x^2 - x - 12} - \frac{5}{12x - 48}$$

Find the Least Common Denominator (LCD), rewrite the addition equation, and solve.

$$\frac{x+1}{x^2+4x+4} - \frac{6}{x^2-4}$$