Adding and Subtracting Dissimilar Rational Algebraic Expressions

How to Add or Subtract Dissimilar Rational Algebraic Expressions:

1. Change the expressions into similar rational algebraic expressions using the least common denominator or LCD.
2. Proceed as in adding or subtracting similar fractions.

Practice Exercises

Perform the indicated operation.

1. $\frac{3}{x+1}+\frac{4}{x}$
2. $\frac{x+8}{x^2-4x+4}+\frac{3x-2}{x^2-4}$
3. $\frac{2x}{x^2-9}-\frac{3}{x-3}$
4. $\frac{3}{x^2-x-2}-\frac{2}{x^2-5x+6}$
5. $\frac{x+2}{x}-\frac{x+2}{2}$

Problem Set

Perform the indicated operation.

1. $\frac{a}{a-b}-\frac{b}{a+b}$
2. $\frac{3}{2x+1}+\frac{5}{3x-2}$
3. $\frac{3a+12}{2a-8}+\frac{a+4}{a-4}$
4. $\frac{y+1}{y}+\frac{y-1}{y+1}$
5. $\frac{2x}{x^2-4x+4}-\frac{1}{x-2}$

Adding and Subtracting Dissimilar Rational Algebraic Expressions

How to Add or Subtract Dissimilar Rational Algebraic Expressions:

1. Change the expressions into similar rational algebraic expressions using the least common denominator or LCD.
2. Proceed as in adding or subtracting similar fractions.

Practice Exercises

Perform the indicated operation.

1. $\frac{3}{x+1}+\frac{4}{x}$
2. $\frac{x+8}{x^2-4x+4}+\frac{3x-2}{x^2-4}$
3. $\frac{2x}{x^2-9}-\frac{3}{x-3}$
4. $\frac{3}{x^2-x-2}-\frac{2}{x^2-5x+6}$
5. $\frac{x+2}{x}-\frac{x+2}{2}$

Problem Set

Perform the indicated operation.

1. $\frac{a}{a-b}-\frac{b}{a+b}$
2. $\frac{3}{2x+1}+\frac{5}{3x-2}$
3. $\frac{3a+12}{2a-8}+\frac{a+4}{a-4}$
4. $\frac{y+1}{y}+\frac{y-1}{y+1}$
5. $\frac{2x}{x^2-4x+4}-\frac{1}{x-2}$

Adding and Subtracting Dissimilar Rational Algebraic Expressions

How to Add or Subtract Dissimilar Rational Algebraic Expressions:

1. Change the expressions into similar rational algebraic expressions using the least common denominator or LCD.
2. Proceed as in adding or subtracting similar fractions.

Practice Exercises

Perform the indicated operation.

1. $\frac{3}{x+1}+\frac{4}{x}$
2. $\frac{x+8}{x^2-4x+4}+\frac{3x-2}{x^2-4}$
3. $\frac{2x}{x^2-9}-\frac{3}{x-3}$
4. $\frac{3}{x^2-x-2}-\frac{2}{x^2-5x+6}$
5. $\frac{x+2}{x}-\frac{x+2}{2}$

Problem Set

Perform the indicated operation.

1. $\frac{a}{a-b}-\frac{b}{a+b}$
2. $\frac{3}{2x+1}+\frac{5}{3x-2}$
3. $\frac{3a+12}{2a-8}+\frac{a+4}{a-4}$
4. $\frac{y+1}{y}+\frac{y-1}{y+1}$
5. $\frac{2x}{x^2-4x+4}-\frac{1}{x-2}$