

Algebraic Expression-Simplification

Exercise 1

Simplify Completely



$$1. \frac{ab+a}{b^2-1} \times \frac{a-3}{b-1} \times \frac{b^2-2b+1}{3a+a}$$

$$2. \frac{x^2-x-2}{x^2-4} \div \frac{x^2+x}{x^2+2x}$$

$$3. \frac{3x^2-7x+2}{x^2-x-2} \times \frac{x^2+2x+1}{3x^2+2x-1} \div \frac{9x^2-1}{9x^2-3x}$$

Exercise 2

Simplify Completely

1. $1 - \frac{2x-5}{3}$

2. $\frac{7x}{2x-2y} - \frac{3x}{5x-5y}$

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

4. $\frac{4}{4+x} - \frac{x}{4-x} - \frac{8x}{x^2-16}$