

## Algebra 2: Homework 26

Express in simplest form:

$$1. \quad \frac{1 - \frac{2}{a}}{\frac{4}{a^2} - 1}$$

$$2. \quad \frac{\frac{2}{x+3} + \frac{4}{x^2-9}}{\frac{4}{x+3} + \frac{2}{x-3}}$$

$$3. \quad \frac{2x}{x^2-4} \div \frac{4}{x^2-4x+4} + \frac{12}{x^2-4} \cdot \frac{2-x}{3}$$

Solve:

$$4. \quad \frac{x}{x-5} - \frac{2}{x+5} = \frac{50}{x^2-25}$$

$$5. \quad \frac{3}{x+3} + \frac{2}{x-4} = \frac{4}{3}$$