

1. Simplify:

$$\frac{\frac{x}{y} - 1}{\frac{x^2}{y^2} - 1}$$

2. Simplify:

$$\frac{\frac{3}{x+1} - \frac{3}{x-1}}{\frac{5}{x^2-1}}$$

3. Simplify:

$$\frac{\frac{7x}{2x-2} + \frac{x}{x^2-1}}{\frac{4}{x+1} - \frac{1}{3x+3}}$$

4. Simplify:

$$\frac{\frac{6}{5} - \frac{1}{9}}{\frac{2}{5} + \frac{5}{3}}$$

Q: What word can you make by adding letters to each side of XYG? (Hint: add one letter to the left side, and two letters to the right side.)