

1. Solve, check your answers

$$\frac{x+3}{2x} = \frac{5}{8}$$

2. Solve, check your answers

$$\frac{2x+3}{x-1} - \frac{2x-3}{x+1} = \frac{10}{x^2-1}$$

3. Solve, check your answers

$$\frac{x+3}{x} + 1 = \frac{x+5}{x}$$

4. Simplify. State domain restrictions

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

5. Simplify. State domain restrictions

$$\frac{2x+3}{x-1} \cdot \frac{\frac{x-1}{x}}{\frac{2x+3}{3x}}$$