

## Practice with Rational Expressions / Complex Fractions / Fractional Equations

1. Solve:  $\frac{x}{x-2} + \frac{x+2}{x} = 2$

2. Solve:  $\frac{12}{x^2-16} - \frac{24}{x-4} = 3$

3. Solve:  $1 - \frac{6}{t^2} = \frac{1}{t}$

4. Combine and simplify:

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

5. Solve:  $x - \frac{15}{x+3} = \frac{5x}{x+3}$

6. Simplify:  $\frac{\frac{5-x}{x} - \frac{5}{x}}{1 + \frac{8}{x} + \frac{15}{x^2}}$

7. Solve:  $\frac{4n+3}{n-6} + \frac{n-4}{6-n} = \frac{44}{2n-12}$

8. Simplify:  $\frac{3x^2-6x}{9x^2} \div \frac{3x^2-4x-4}{4-9x^2}$

9. Combine and simplify:

$$\frac{y}{y-1} + \frac{y}{2} - \frac{y+1}{2y-2}$$

10. Simplify:  $\frac{\frac{p}{p-1} + \frac{p}{p+1}}{\frac{p}{p+1}}$