

Main Ideas/Questions	Notes/Examples	
Solving Rational Equations	METHOD 1: Proportions	METHOD 2: Using an LCD
	Condense into a proportion. Then, cross-multiply to solve.	Multiply each side of the equation by the least common denominator. Solve the resulting equation.
	ALWAYS REMEMBER TO CHECK YOUR SOLUTIONS!	

Directions: Solve each equation. Check all solutions

1. $\frac{7}{x-6} = \frac{4}{x}$

[Faint handwritten work is visible below the equation]

2. $\frac{3}{a-8} = \frac{7}{2a+1}$

[Faint handwritten work is visible below the equation]

3. $\frac{r}{r-1} = \frac{4}{r}$

[Faint handwritten work is visible below the equation]

4. $\frac{m+3}{3} = \frac{8}{m-2}$

[Faint handwritten work is visible below the equation]

5. $\frac{y}{3} = \frac{y+8}{y+5}$

[Faint handwritten work is visible below the equation]

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

[Faint handwritten work is visible below the equation]

$$7. \frac{4}{3} - \frac{7}{n} = \frac{1}{6}$$

$$8. \frac{3}{k} - \frac{1}{2} = \frac{12}{k}$$

$$9. \frac{p}{p-2} + 2 = \frac{8}{p^2-4}$$

$$10. \frac{13}{3w-3} - \frac{1}{w-1} = \frac{w}{9}$$

$$11. \frac{x+6}{x+3} = 2 - \frac{5x+12}{x+3}$$

$$12. \frac{3c-2}{c^2-4c} = \frac{c}{c-4} - 1$$