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. $\dfrac{7}{x-6} = \dfrac{4}{x}$

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

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

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

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

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

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

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

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

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

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

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