


PAP Algebra 2 Homework
9.3 Solving Rational Equations

Name: _____ 

Solve for x showing all your work. Check for any excluded values.

1. $\frac{1}{6x^2} = \frac{1}{3x^2} - \frac{1}{x}$

2. $\frac{1}{x^2} + \frac{1}{x} = \frac{1}{2x^2}$

3. $\frac{1}{x} + \frac{3x+12}{x^2-5x} = \frac{7x-56}{x^2-5x}$

4. $\frac{1}{x-2} + \frac{1}{x^2-7x+10} = \frac{6}{x-2}$

$$5. 1 = \frac{x+2}{x-4} + \frac{7x-42}{x-4}$$

$$6. 1 = \frac{1}{x^2+2x} + \frac{x-1}{x}$$



$$7. \frac{x+5}{x+8} = 1 + \frac{6}{x+1}$$

$$8. \frac{5}{x^3+5x^2} = \frac{4}{x+5} + \frac{1}{x^2}$$