Precalculus Name_____

Section 2.7 – Solving Rational Equations

For each rational equation, solve for x. Make sure to watch for extraneous solutions!

1. $\frac{1}{x-1}+5=\frac{11}{x-1}$

2. $\frac{3}{x+4}-7=\frac{-4}{x+4}$

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

4. $\frac{3}{x+3}=\frac{5}{2x+6}+\frac{1}{x-2}$

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

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

7. $\frac{1}{x-4}-\frac{5}{x+2}=\frac{6}{x^2-2x-8}$

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