Name _____   Date _____
Mr. Schlansky   Algebra II

Fractional Equations

Solve the following fractional equations and list the solutions as well as the extraneous solutions

1. $\dfrac{x}{3} + \dfrac{x+1}{2} = x$

2. $\dfrac{1}{7} + \dfrac{2x}{3} = \dfrac{15x-3}{21}$

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

4. $\dfrac{4x}{x-3} = 2 + \dfrac{12}{x-3}$

5. $\dfrac{5}{x} = \dfrac{x+13}{6}$

6. $\dfrac{1}{m+10} + \dfrac{1}{5} = \dfrac{3}{m+10}$

7. $\dfrac{x}{x-1} = \dfrac{2}{x} + \dfrac{1}{x-1}$

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

9. $\dfrac{-3}{x+3} + \dfrac{1}{2} = \dfrac{x}{6} - \dfrac{1}{2}$

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

11. $\dfrac{3x+25}{x+7} - 5 = \dfrac{3}{x}$

12. $\dfrac{3p}{p-5} - \dfrac{2}{p+3} = \dfrac{p}{p+3}$