Name _____ Date _____

Mr. Schlansky Algebra I

Fractional Equations

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

1. $\frac{x}{\quad} + \frac{x+1}{\quad}$

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

3. $\frac{m}{\quad} + \frac{3(m-1)}{\quad} =$

4. $\frac{2}{\quad} - 3 =$

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

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

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

8. $\frac{5}{\quad} = \frac{x+}{\quad}$

9. $\frac{x+2}{\quad} = -$

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

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

12. $\frac{x+1}{\quad} = -$

13. $\frac{-3}{\quad} + \frac{1}{\quad} =$

14. $\frac{x+2}{\quad} =$

15. $\frac{3x+25}{\square} - \frac{\square}{\square}$

16. $\frac{3p}{\square} - \frac{2}{\square} =$

17. $\frac{2}{\square} - \frac{3x}{\square} =$

18. The solutions to $x+3-\frac{4}{\square}$ are

1) $\frac{3}{\square} + \frac{\sqrt{\square}}{\square}$

2) $\frac{3}{\square} + \frac{\sqrt{\square}}{\square}$

3) $\frac{3}{\square} + \frac{\sqrt{\square}}{\square}$

4) $\frac{3}{\square} + \frac{\sqrt{\square}}{\square}$