Algebra 2B Name _____
Rational and Radical Equations

Solve for x:

1. $\frac{4}{x+1}+3=4$

2. $\frac{3}{2x}\cdot\frac{4x}{2x+5}=\frac{3}{4}$

3. $\sqrt{11-2x}+3=1-x$

4. $\frac{x^2+7x-8}{3x}\cdot\frac{3}{4x-4}=\frac{5}{12}$

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

6. $\frac{6}{x+1}\cdot\frac{2x+2}{x}=4$

7. $\sqrt{x-6}+9=x-9$

8. $\frac{x+7}{8}\cdot\frac{2}{x^2+4x-21}=-\frac{1}{8}$

9. $\frac{x+2}{3}+\frac{x-1}{4}=8$

10. $\sqrt{8x}+3=2x$

11. $\frac{12}{x}+\frac{10}{x-3}=3$

12. $\frac{x^2-2x-15}{x+6}\cdot\frac{2x+12}{x^2-25}=3$

13. $x=\sqrt{x+1}$

14. $x-1=\frac{1}{x}$

15. $\frac{x^2-3x-10}{x^2+9x+18}\cdot\frac{x^2+8x+7}{x^2-11x+30}=-2.5$

16. $\frac{7}{x}+\frac{4}{x+3}=\frac{1}{2}$