$\qquad$
Solve each of the following equations. Express the solution in simplest form. Show all of your work neatly organized.

1. $7 x+3=3 x-7$
2. $\quad 9 x-7=2 x+8$
3. $-10 x-5=3 x-7$
4. $\frac{2 x}{3}+\frac{1}{6}=\frac{5 x}{12}-\frac{3}{4}$
5. $\frac{7 x}{8}-\frac{3}{10}=1-\frac{3 x}{5}$
6. $\frac{5 x}{9}-\frac{5}{6}=\frac{3 x}{4}+\frac{1}{12}$
7. $5(2 x+3)+7(x-2)=0$
8. $\quad 3(5 x-1)+2(3 x+5)=7$
9. $2(3 x+1)-5(2 x+3)=x+1$
10. $3(7 x-2)-5(4 x-1)=3(x-1)$
11. $.02(3 x+1)+.05(2 x-1)=10$
12. $.5(7 x-2)-.12(3 x-4)=2 x-1$

## Precalculus Algebra Review Worksheet \#5 Linear Equations page 2

Solve each of the following equations. Express the solution in simplest form. Show all of your work neatly organized.
13. $\frac{3 x+5}{6}+\frac{2 x-1}{4}=\frac{x+7}{8}-\frac{2 x-1}{12}$
14. $1-\frac{5 x+3}{10}=x-\frac{7 x-5}{4}$
15. $\frac{3 x+5}{8}-\frac{2 x-5}{12}=\frac{5 x-2}{6}-\frac{x+3}{12}$
16. $\frac{2}{3}(5 x+1)-\frac{1}{2}(2 x-3)=1$
17. $\quad \frac{-5}{9}(x-1)-\frac{1}{6}(x+1)=x+2 \quad$ 18. $\frac{5}{6}(10 x-3)-\frac{2}{3}(4 x-1)=1-\frac{7}{10}(2 x+3)$

