5-4 Worksheet

Solve each rational equation. Check for extraneous solutions. Show your work!

1. $\frac{12}{x}+\frac{3}{4}=\frac{3}{2}$	2. $x+5=\frac{6}{x}$	3. $\frac{x}{x-2}=\frac{2}{5}$
4. $\frac{9}{x-3}=\frac{x-4}{x-3}+\frac{1}{4}$	5. $\frac{4}{x-2}=\frac{-1}{x+3}$	6. $\frac{1}{2x}+\frac{5}{x}=\frac{3}{x-1}$
7. $\frac{x}{x+2}+x=\frac{5x+8}{x+2}$	8. $\frac{x-4}{x-2}=\frac{x-2}{x+2}+\frac{1}{x-2}$	9. $x+\frac{2x}{x-1}=1-\frac{x-3}{x-1}$
10. $\frac{4x}{x-1}-\frac{5x}{x-2}=\frac{2}{x^2-3x+2}$	11. $\frac{x}{x+4}+\frac{4}{x-4}=\frac{x^2+16}{x^2-16}$	12. $x+\frac{x}{x-2}=\frac{2}{x-2}$
13. $\frac{1}{x-2}=\frac{2x+1}{x^2+2x-8}+\frac{2}{x+4}$	14. $\frac{1}{x+4}=\frac{2}{x^2+3x-4}-\frac{1}{1-x}$	15. $5-\frac{3x+2}{x-1}=\frac{2x-4}{x+2}$