Rational Equations

In problems 1-13, solve each equation

1. $\dfrac{5}{x^2} - 3 = \dfrac{2}{x}$	2. $\dfrac{y+7}{y-5} = \dfrac{y+10}{y-6}$
3. $\dfrac{1}{x+7} + \dfrac{5}{x+6} = \dfrac{-1}{x^2+13x+42}$	4. $x - \dfrac{8}{x} = 7$
5. $\dfrac{3}{y+2} - \dfrac{7}{y-2} = \dfrac{12}{y^2-4}$	6. $\dfrac{2}{x} = \dfrac{1}{3x-4}$
7. $\dfrac{7}{x-4} = 1 + \dfrac{9}{x+4}$	8. $\dfrac{x+5}{x^2-3x-10} - \dfrac{5}{x^2-10x+25} = \dfrac{x-5}{x^2-3x-10}$
9. $1 + \dfrac{1}{x} = \dfrac{6}{x^2}$	10. $\dfrac{1}{x-1} + \dfrac{2}{3x-3} = \dfrac{-5}{12}$
11. $5 - \dfrac{2}{x-1} = \dfrac{x-5}{x-1}$	12. $\dfrac{x-2}{x^2-x-6} - \dfrac{x}{x^2-4} = \dfrac{3}{2x+4}$
13. $\dfrac{x+4}{3x^2-5x-2} + \dfrac{2x+5}{2x^2-x-6} + \dfrac{4x+3}{6x^2+11x+3} = 0$	