Solving Rational Equations

1. $\dfrac{5}{2x-2} = \dfrac{15}{x^2-1}$

2. $\dfrac{-4}{5(x+2)} = \dfrac{3}{x+2}$

3. $\dfrac{1}{2x} - \dfrac{2}{5x} = \dfrac{1}{2}$

4. $\dfrac{4}{x} - \dfrac{3}{x+1} = 1$

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

6. $\dfrac{3}{x + 5} + \dfrac{2}{5 - x} = \dfrac{-4}{x^2 - 25}$