Solve each equation. Remember to check for extraneous solutions.

1) $\frac{6}{2n^2+5n+2} - \frac{1}{2n+1} = \frac{1}{2n^2+5n+2}$

2) $\frac{2}{n^2-n} = \frac{5}{n} - \frac{1}{n^2-n}$

3) $\frac{2}{x} - 1 = \frac{1}{x}$

4) $\frac{1}{x+4} = \frac{1}{x^2+4x} - \frac{5x-25}{x^2+4x}$

5) $\frac{1}{x+1} = \frac{x+6}{x+1} + \frac{x^2+x-20}{x^2-4x-5}$

6) $1 - \frac{5}{v^2+v-20} = \frac{v+4}{v+5}$

7) $\frac{3}{n-1} = \frac{1}{2} - (n-4)$

8) $\frac{1}{x^2+4x} = 1 - \frac{x-2}{x}$