**Additional Practice Solving Rational Equations and Inequalities**

1. **Use an efficient technique to solve the following rational equations.**
2. $\frac{8}{x+1}+\frac{2x}{x+3}=3$ **b)** $\frac{3}{x+5}=\frac{5-x}{8}$
3. $\frac{x+4}{x}+\frac{x+10}{4x}=\frac{x-6}{4}$ **d)**$\frac{x+3}{3x^{2}+8x-3}=\frac{x^{2}-3x-10}{x^{2}-25}$
4. $\frac{3x^{2}-6x}{x^{2}-x-2}+\frac{8x}{2x+4}=4$ **f)** $\frac{8}{x-1}-2x+4=\frac{x+1}{2}$
5. **Solve the following inequalities.**
6. $\frac{x-2}{x+1}\leq -\frac{2}{x^{2}-3x-4}$
7. $\frac{1}{x-6}\leq \frac{2}{x+2}$

Homework: pg 285 # 2b, 3b, 5bd, 6bd, 7bd, pg 295 # 4bdf, 5bdf, (9)