Homework: Polynomial and Rational Inequalities

In Problems 1-11, solve each polynomial inequality and express each solution set in interval notation

1. $(x-6)(x+1)<0$	2. $x^2-7x+10\geq 0$
3. $x^2-4x+4<0$	4. $3x^2-17x+10\leq 0$
5. $8x^2>-29x+12$	6. $7x^2-5x\leq 0$
7. $x^2-8x+2>0$	8. $(x+8)(x+1)(x-3)\geq 0$
9. $(x-4)^2(x+5)<0$	10. $x^3-6x^2-9x+14\leq 0$
11. $x^3>-8x^2$	

In Problems 12-15, solve each rational inequality and express each solution set in interval notation

12. $\dfrac{x-5}{x+2}<0$	13. $\dfrac{3x-2}{x+7}\geq 0$
13. $\dfrac{(x-5)(x+2)}{x+8}\geq 0$	13. $\dfrac{x+1}{x-2}\leq 2$