Homework: Polynomial and Rational Inequalities

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

1. $(-1,6)$	2. $(-\infty,2]\cup[5,\infty)$
3. No Solution	4. $\left[\frac{2}{3},5\right]$
5. $(-\infty,-4)\cup\left(\frac{3}{8},\infty\right)$	6. $\left[0,\frac{5}{7}\right]$
7. $(-\infty,4-\sqrt{14})\cup(4+\sqrt{14},\infty)$	8. $[-8,-1]\cup[3,\infty)$
9. $(-\infty,-5)$	10. $(-\infty,-2]\cup[1,7]$
11. $(-8,0)\cup(0,\infty)$	

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

12. $(-2,5)$	13. $(-\infty,-7)\cup\left[\frac{2}{3},\infty\right)$
13. $(-8,-2]\cup[5,\infty)$	13. $(-\infty,2]\cup(5,\infty)$