Name_____

PTest Higher Degree Inequalities Date_____

1. ***Define- Rational Root Theorem

2. ***Using the Zero Product Property, (Factoring), write the procedure for solving quadratic equations.

3. ***Define- Critical Points

4. ***With respect to solving inequalities, what do critical points do?

5. ***Write the algorithm for solving higher degree inequalities.

Solve the following 2-star inequalities and show the graphs**

6. $x^2 + x > 12$

7. $x^2 - 3x - 10 \leq 0$

8. $(x - 1)(x + 3)(x + 5) > 0$

9. $3 + \frac{4}{x+1} > 0$

10. $(x + 3)(3x - 8) < 0$

11. *** Write information to reach a parent or guardian; phone, email or address. (CHP)