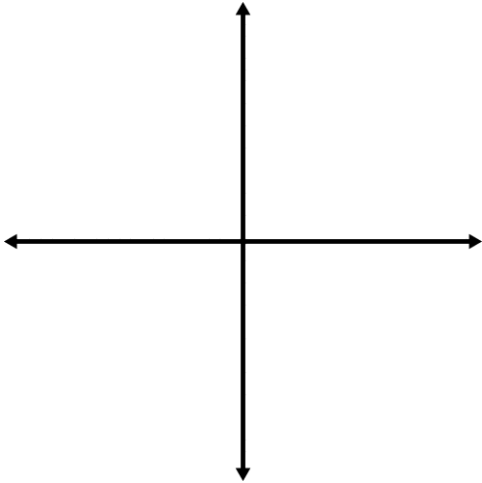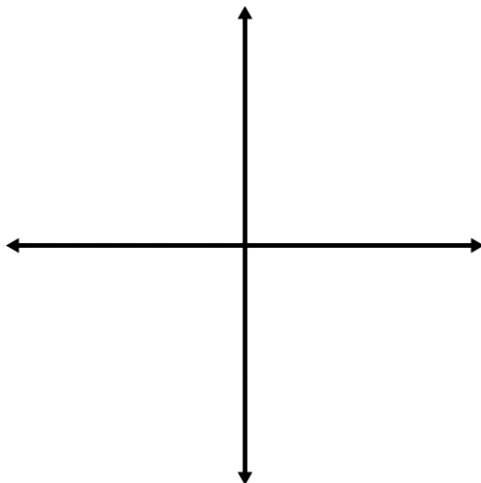**Sketching Polynomials Practice**

Sketch a polynomial given the degree and number of real roots. If the polynomial cannot be drawn, explain why. **For #1-6, assume the L.C. is positive. For #7-12, assume the L.C. is negative.**
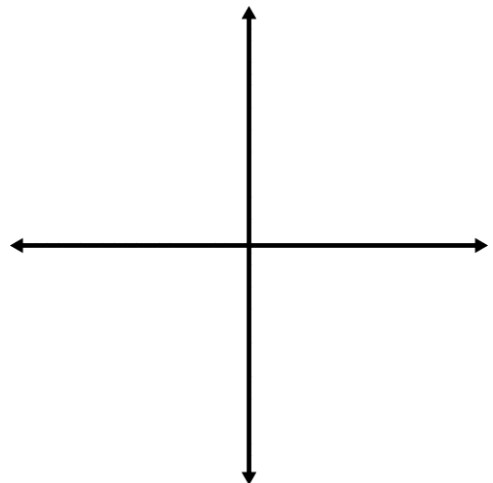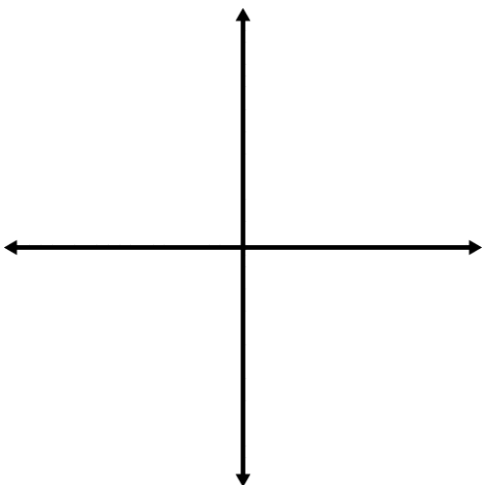
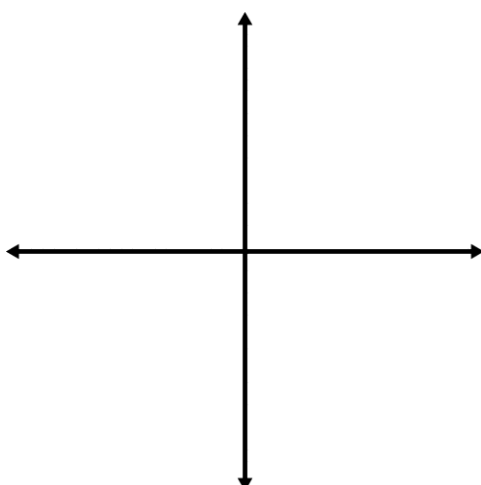1. Degree 4, 0 Real Roots

2. Degree 6, 3 Real Roots
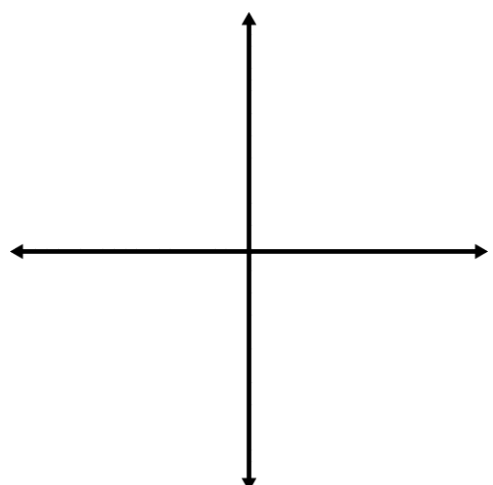
3. Degree 2, 2 Real Roots
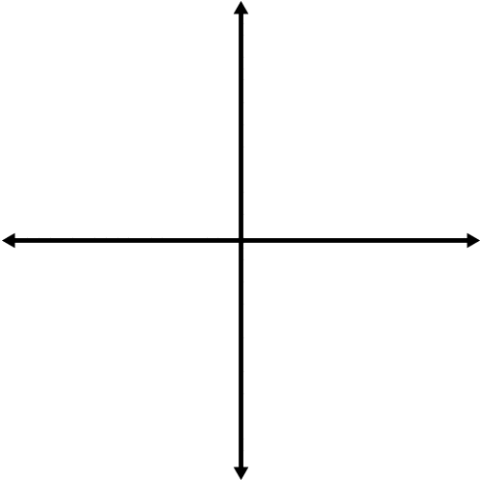
4. Degree 3, 0 Real Roots
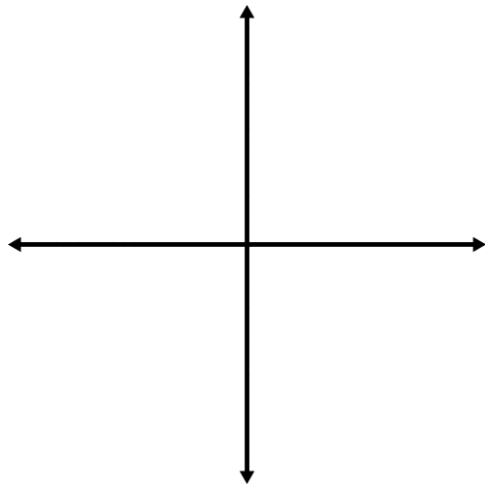
5. Degree 2, 1 Real Double Root
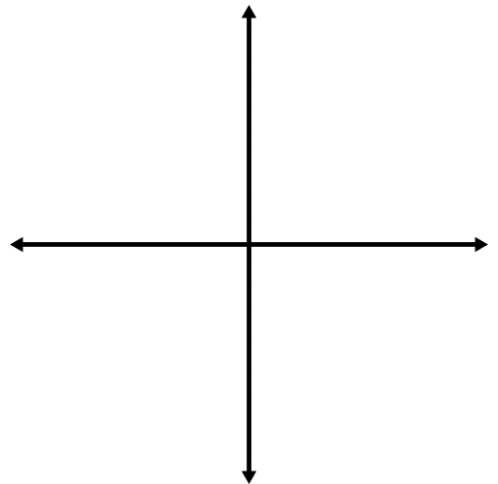
6. Degree 5, 5 Real Roots
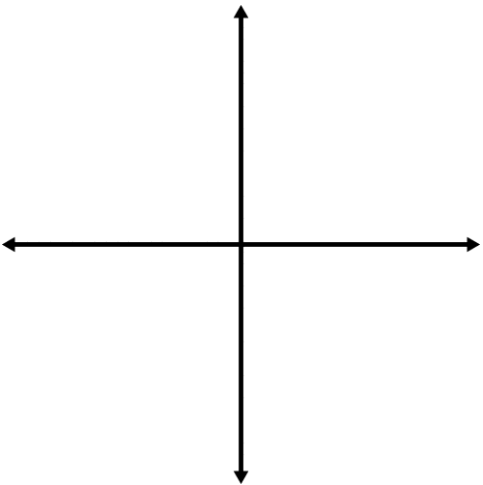
7. Degree 5, 2 Real Roots
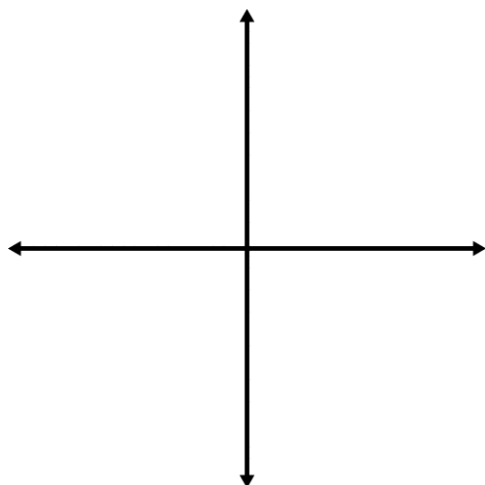
8. Degree 6, 6 Real Roots

9. Degree 5, 0 Real Roots

10. Degree 4, 3 Real Roots

11. Degree 3, 3 Real Roots

12. Degree 6, 2 Real Roots