Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Band:\_\_\_\_\_

Algebra 2

**Sketching Polynomial Functions Homework**

***READ ME:*** Use your knowledge about end behavior, -intercepts/roots/solutions, repeated solutions, imaginary solutions, and turning points to help you sketch each polynomial function. Write out the cool observations you make to show your work. Do NOT use a graphing calculator to “cheat” your way to a sketch.

**Sketch a graph of each polynomial function. Write out the cool observations you make to show your work.**

**1.** **2.**

**3.** **4.**

**5.** **6.**

**7.** **8.**