Unit 2 Test Outline – Graphing Polynomials

1) Graphing Polynomials from factored form
   - Determine roots and multiplicity (cut, touch, etc.)
   - Label x and y intercepts
   - Determine end behaviours
   - Degree of Polynomial

2) Identify properties of polynomial functions
   - Determine type/degree of polynomial
   - Determine sign (+/-) of leading coefficient (relate to end behavior)
   - Determine number and type of roots

3) Solving Polynomial Inequalities
   - Graphically
   - Algebraically (use chart)

4) Intervals of Inc/Dec & Max/Min Points
   - Interval notation using round & square brackets
   - State intervals where f(x) is increasing/decreasing
   - Identify max/min points

5) Determine equation of polynomial function
   - From table of values using finite differences & system of equations
   - From graph using roots and point on curve