ACCELERATED GEOMETRY **Possible Performance Essay Topics** SPRING 2019

1. CONICS – Be sure to know how to determine the characteristics of circles, parabolas, ellipses, and hyperbolas. Be prepared to explain the graphs and equations of each as well.
2. GRAPHING POLYNOMIALS – be able to determine the roots, y-intercept, domain, range, end behavior, and intervals of increase/decrease of a given polynomial function
3. ROOTS/SOLUTIONS OF POLYNOMIALS – be prepared to describe all the methods used to determine the roots of polynomials (factoring, synthetic division, quadratic formula). Be sure to know how to determine the amount of roots and the type (real/imaginary) based on a graph.
4. FACTORING – be prepared to describe how to factor by grouping and the rules for factoring a sum/difference of cubes

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