

Math – Advanced Math
Hartley-Melvin-Sanborn CSD
Grade Level/Course Benchmarks

By the end of Advanced Math, students will:

- AM.1 Solve linear and quadratic equations over real and complex numbers. (Standard 4)
- AM.2 Graph linear and quadratic functions. (Standards 4 and 6)
- AM.3 Simply and solve polynomial expressions and equations. (Standard 4)
- AM.4 Solve linear and quadratic inequalities in one and two variables, including absolute value inequalities. (Standard 4)
- AM.5 Demonstrate skill in working with properties of functions and recognizing patterns when graphing functions. (Standards 4, 5 and 6)
- AM.6 Solve equations and real world problems involving exponential and logarithmic functions. (Standards 4, 5 and 6)
- AM.7 Demonstrate skill in working with the definitions, properties and techniques for both circle and triangle trigonometry. (Standards 4 and 6)
- AM.8 Demonstrate an understanding of the properties of all four conic sections. (Standards 4 and 6)
- AM.9 Demonstrate an understanding of polar coordinates. (Standard 4)
- AM.10 Apply the properties and patterns for simplifying and evaluating sequences and series. (Standard 4)
- AM.11 Apply elementary concepts of probability and statistics in problem solving. (Standards 2, 4 and 6)
- AM.12 Use all of the above skills in problem solving strategies. (Standard 6)

Revised: November, 2007