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)

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