

In Math 1060, students learn how to:

- find values of basic trigonometric functions by interpreting them as ratios or coordinates of points on the unit circle,
- graph basic trigonometric functions and their transformations, and identify the features (amplitude, period, phase shifts, and vertical shifts) of such graphs,
- verify trigonometric identities,
- solve trigonometric equations, including use of inverse trigonometric functions,
- solve for missing measurements in triangles using a combination of the Pythagorean theorem, inverse trigonometric functions, and the Laws of Sines and Cosines,
- convert among rectangular, polar, and trigonometric forms of complex numbers, and use the geometric interpretation of complex numbers to perform arithmetic and find roots,
- use basic operations with vectors, including addition, finding the magnitude, and the dot product,
- identify the type of conic section from a quadratic equation, putting the equations of conic sections in their standard form, and using the attributes of conic sections to graph them.