

- P.1 I can represent groups of numbers using inequalities, set notation, interval notation, and roster notation.
- P.1 I can classify numbers as natural, whole, integers, rational, irrational, real, or complex.
- P.1 I can classify numbers as prime or composite.
- P.1 I can apply the rules of exponents to simplifying numerical and algebraic expressions.
- A.1 I have memorized basic squares (1^2 - 20^2 , 25^2) and cubes (1^3 - 12^3).
- A.1 I can simplify square roots and radicals with other indexes.
- A.1 I can rationalize monomial and binomial denominators.
- A.1 I can convert radicals to rational exponents and vice versa.
- A.1 I can apply the rules of roots to add, subtract, multiply, and divide radicals.
- P.6 I can add, subtract, multiply, and divide complex numbers.
- P.6 I can rationalize complex denominators.
- P.6 I know the definition of the imaginary unit, i^2 , and i^4 .
- 1.3 I am familiar with characteristics of twelve basic function families and the characteristics of functions in general.
- 1.3 I can describe functions by describing domain, range, graph shape, continuity, boundaries, even behavior, odd behavior, asymptotes, and other characteristics.
- 4.1 I can measure angles precisely using degrees, minutes, and seconds.
- 4.1 I can measure angles using radians.
- 4.1 I can convert degrees to radians and vice versa.
- 4.2 I can find missing angle or side measures of a right triangle using the trigonometric ratios.
- 4.2 I understand that the trigonometric ratios demonstrate a relationship between angle measures and side lengths in right triangles.
- 4.3 I can find the sine, cosine, and tangent of angles in the coordinate plane.
- 4.3 I can sketch angles greater than 360 degrees or 2 pi radians.
- 4.3 I can sketch positive or negative angles.
- 4.3 I can use the unit circle to find the sine, cosine, and tangent of angles in 30 degree or 45 degree increments precisely using radicals and fractions.
- 4.4 I can find the period and amplitude of sine and cosine functions.
- 4.4 I can graph sine and cosine functions.
- 4.5 I can graph the tangent, cotangent, cosecant, and secant functions.

4.5 I can describe characteristics of the trigonometric function's graphs using appropriate vocabulary.

5.1 I can find the sine and cosine of the sums or differences of angles.

5.1 I can use the principles of simplifying radicals to write in answers in radical form.

5.1 I can construct a viable argument and critique the reasoning of others.

5.1 I can recognize and create equivalent expressions and equations.

5.1 I can recognize and create at least three equivalent versions of the pythagorean theorem.

5.3 I can find the measures of angles by applying the sum and difference formulas.

5.3 I can use the unit circle to find the tangent of standard angles.

8.1 I can determine characteristics of parabolas from their equations and graphs.

8.1 I can identify conic sections (e.g. parabola, circle, ellipse, hyperbola) from their equation in standard form.