Students should be able to do the following things by the end of each respective unit. Additions may be made as the term progresses.

Trigonometry

- 1. Argue for the "naturalness" of measuring angles in radians as opposed to degrees.
- 2. Argue for the usefulness of trigonometric functions.
- 3. Define the functions $\sin x$ and $\cos x$ in terms of the unit circle as well as right triangles.
- 4. Sketch the graphs of $\sin x$ and $\cos x$ as well as transformations of $\sin x$ and $\cos x$.
- 5. Explain what the derivatives of $\sin x$ and $\cos x$ are and justify them without proof.
- 6. Apply derivative rules to functions that are a composition of trig functions and polynomials.