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

Implicit Differentiation

- 1. Find $\frac{dy}{dx}$ using implicit differentiation, given a curve f(x,y) = g(x,y) composed of simple functions.
- 2. Justify the technique of implicit differentiation using chain rule.
- 3. Use logarithmic differentiation to differentiate products of functions, quotients of functions or functions with variables in both the base and the exponent (such as x^x).