

Math 110 (Section 002) Learning Objectives

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

Curve Sketching

1. Sketch the graph of a given function, indicating its domain, intercepts, and asymptotes; intervals of increase/decrease and extrema; and intervals of concavity and inflection points.
2. Come up with the graph of, and an algebraic expression for, a (possibly piecewise) function, given any combination of the following: domain, intercepts, asymptotes, intervals of increase/decrease, extrema, intervals of concavity, and inflection points.
3. Define what it means for a function to be 'even' or 'odd'.
4. Identify a given function as even or odd. Give examples of even and odd functions.