

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.

Velocity and the idea of a limit

1. Explain, using a picture but not the formal vocabulary of limits, what velocity and acceleration are.
2. Sketch the graphs of velocity and acceleration of a particle given a graph of its position.
3. Given graphs of the position, velocity and acceleration of a particle, identify which is which.
4. Numerically estimate the velocity of a particle given a graph of its position.
5. Explain, using a picture, what a difference quotient is.