Calculus

Date:

Items Needed: .Book, mathgraphs for 68, 77, 78.

Objective: The students will learn to use the basic differentiation rules to solve rates of changes.

Lesson:

- The derivative can also be used to determine the rate of change of one variable with respect to another.
- Talk about the average velocity formula.
- Look at example 10
- If you want to know the instantaneous velocity of a given time is the derivative of the position function.
- The position of a free-falling object (neglecting air resistance) under the influence of gravity can be represented by the equation $s(t) = 1/2gt^2 + v_0t + s_0$ where s s_0 is the initial height, v_0 is the initial velocity of the object, and g is the acceleration due to gravity.
- Solve example 11

Assignment: 95-98, p. 145

Evaluation: (Could be from any one/several of the following)
      Responses from classroom questions
      Results of classroom sample problems
      Homework responses
      Check answer with Calculator
      End of the section exam

Enrichment: