

Calculus

Date:

Items Needed: .Book,

Objective: The students will be able to find an antiderivative using integration by parts.

Lesson:

- Derive theorem 8-1. Use notes that I have written in my book.
- Talk about the guidelines for using integration by parts.
- Do examples 1, 2, & 3.
- Remind students that you may have to use integration by parts several times to get an integral to simplify all the way down. Each time you do the process the function will become a little simpler to integrate.
- Remind students about their trig identities.
- Do example 5.

- Look at the summary of common integrals using integration by parts on p. 532.

Assignment: .Have students do 15, 17, 25, 28, 30, 34, p. 533.
Have students do 50, 55, 57, 78 (Capstone), p. 533.

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: