

Experiment #02

Slot: L27+L28

MAT1011: CALCULUS FOR ENGINEERS

Class # 5972

Title: Mean Value Theorem - Interpretation and Visualization

Typically an e-record has the following sections:

Aim: The aim of the experiment.

Mathematical Background: A brief note about mathematics involved in the problem at hand. It involves Mathematical Model and the methods used in the experiment.

MATLAB code: The MATLAB code used to get the desired output.

Output and Conclusion: The output obtained using MATLAB and concluding remarks in terms of application in the relevant Engineering branch.

Along with the e-record submit your responses to the following questions.

1. How do you change properties of a plot made by ezplot? Explain with an example.
2. Does the program written in the lab work for all functions? If not, then for what function it does not work. With what changes the code will work for any function?
3. Write a MATLAB code to draw tangent at a point of an implicit function. Verify your program with an output.

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- The lab record with the solutions to the exercise problems must be submitted in **pdf format only**.
 - Write virtuously and don't make it an oversized document (preferably < 8 pages with file size < 1 MB).
 - Copying others' work can be injurious to your grades.