Due Date: October 29, 2015	NAME:	
Dife Date: October 79 7015	NAME:	
Duc Duic. October 27, 2013	1 1/ 11/11.	

## HOMEWORK SET # 5 ME/AE 5212 Introduction to Finite Element Analysis

1. Solve Example 3.2.1 using **fem1d** with 4 linear, 2 quadratic and 4 quadratic elements. Compare the results with exact solution given in Table 3.2.1. Plot u(x) vs x and du/dx vs x.

(10 points)

2. Solve Example 4.3.1 using **fem1d** with 3 linear elements and compare the results with those obtained using hand calculations.

(10 points)

Input data for Problems 1 and 2 are posted on the Blackboard. <u>Need a summary of the results with units.</u> The summary should follow the problem statement. Also, provide the listing of sample data and output.