

Fall 2021 | MECH 6318  
Engineering Optimization – Prof. Jie Zhang  
HOMEWORK #5  
September 28, 2021

**DUE: Tuesday, October 5, 2021 5PM central time**  
**Submit the HW to eLearning**

**Points Distribution**

30 points maximum

-5 to 0 points reserved for **Neatness and Professional Presentation**

(legible, stapled, show key Matlab commands, properly labeled plots, etc.)

**Book Problems:**

Problems 12.4 parts 1a (Bisection method) and 1c (Golden section method);  
Problem 12.5 part 1c (Quadratic approximation method).

Please show your complete work, and present the results in a tabular form as shown in Table 12.6.