Homework Assignment 4
Math 472, Numerical Analysis II
Prepared by Dr. Kareem Elgindy
Due Date: 04:45 pm on 13/11/2019

“In the following questions retain at least FIVE SIGNIFICANT DIGITS in all arithmetic operations of your answers. Use rounding to the nearest to round all your approximations.”

1 Theoretical Questions

Question 1. [Exercise Set 4.7 of the Textbook]
   II. [2 marks] Solve Question 9. (Use $n = 2$ instead.)

Question 2. [Exercise Set 5.1 of the Textbook]
   I. [2 marks] Solve Question 1.d. (Do not find the solution.)
   II. [4 marks] Solve Question 4 (a and b).

Question 3. [Exercise Set 5.2 of the Textbook]

2 MATLAB Question

Question 1. [4 marks] Solve Question 16 in Exercise Set 5.2 of the Textbook using Algorithm 5.1. (Show the necessary MATLAB code and the outputs.)