

Homework of Numerical Analysis

Math 4065 Fall 2023

August 24 Page 11-12: 3(a), 4(a), 5(a), 6(a), 7(a), 8, 9; Page 14: 28;

August 29 Page 36: 6, 7; Page 53: 14;

August 31 Page 54: 17, 20; Page 63: 3; Page 64, 7;

September 5 Page 65: 21, 23, 25

September 7 Page 74: 1, 2, 3, 4; Page 78: 32

September 12 Page 85: 8, 12

September 14 Page 89: 1 (a) (b), 3; Page 90: 5, 15

September 19 Work on Project1 and Read Section 3.1

September 21 Page 112: 1, 3; Page 114: 21, 22

September 26 Read classnotes. State and prove the Lagrange Interpolation Theorem 3.3 on Page 109

September 28 Page 132: 16; Page 133: 19, 21, 23

October 3 Page 139: 1 (a) (c); Page 140: 6; Page 141: 11

October 10 Read classnote. State and prove the Hermite Interpolation Theorem 3.9

October 12 Study classnotes, quiz problems and homeworks to prepare the midterm exam.

October 19 Page 183: 27, 29

October 24 Page 200: 1(a), 5 (a); Page 201: 19, 20, 21, 23;

October 26 Page 208: 7 ; Page 209: 11; Memorize (Composite) Trapezoidal Rule and (Composite) Simpson's Rule

October 31 Page 217: 1 (a); Page 219: 17, 19

November 2 Page 226: 1(a); Page 228: 13; Page 234: 1(a); Page 235: 11, 12, 14

November 7 Page 514: 1, 3 ; Page 517: 14

November 9 Read text book Sections 8.1 and 8.2