

King Fahd University of Petroleum and Minerals
College of Computer Sciences and Engineering

CISE 301 – Numerical Methods (T112)

Homework # 04 (due date & time: Monday 16/04/2012 during class period)

***** Show all your work. No credit will be given if work is not shown! *****

Problem 1 (15 points): Problem 23.2 of the textbook.

Problem 2 (15 points): Problem 23.4 of the textbook.

Problem 3 (20 points): Parts (a) and (e) of problem 23.8 of the textbook.

Problem 4 (30 points): Parts (a), (b), and (c) of problem 21.1 of the textbook.

Problem 5 (10 points): Part (a) of problem 21.10 of the textbook.

Problem 6 (5 points): Problem 22.1 of the textbook.

Problem 7 (45 points): Problem 22.5 of the textbook.

Problem 8 (10 points): Part (a) of problem 22.9 of the textbook. Use a 5-point Gauss-Legendre formula in computing the integration.