MTH 408/522: Numerical analysis

Homework IV: Interpolation

Problems for practice

1. Establish all the assertions in Theorems 2.1.6, 2.1.7, 2.3.4, and 2.3.5 that were not discussed in class.

2. The following problems from "Numerical Analysis (9th ed.)" by Richard Burden and Douglas Faires.

   (a) Exercise Set 3.1 (Pages 114-117): 2, 4, 6, 8, 9, 10, 21.

   (b) Exercise Set 3.3 (Pages 133-136): 3, 5, 7, 9(a)-(b), 15, 19-20.

   (c) Exercise Set 3.4 (Pages 142-144): 1, 3, 9, 11, 12.