NA programming homework #2

陈澎 Chen Peng 3220103443 *

Xinji 2201, Zhejiang University

2024年10月22日

Problem A

Problem B

Complie and run the program B.cpp. its output is the Newton interpolation polynomial of each situations. It is shown as below.

Use matlab to plot each p(x) and the function $\frac{1}{1+x^2}$ in [-5,5]. The image is as follows.

Problem C

Problem D

Problem E

Problem F

^{*}Email: cpzju@zju.edu.cn

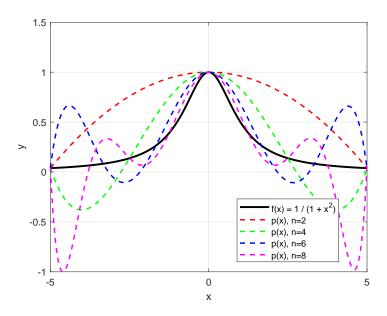


Fig. 1: Comparison of interpolating Polynomials and Function $f(x) = \frac{1}{1+x^2}$