Assignment 6.

Given Dec 1 2000, due Dec 12 2000.

(1) Programming:
  (a) Do exercise 3.11 (a), plot f together with P_{2m+1} in one picture.
  (b) Do exercise 3.11 (b)
  (c) Repeat (a) using Chebyshev nodes.
  (d) (extra) Repeat (a) using 13 equally spaced grid points, but instead of polynomial interpolation, perform the least square fitting.

(2) Write down the matrix problem (including A and b) for cubic B-spline interpolation with Type 1 and Type 2 end conditions. (page 108)