

Example 4.3.2

The function f , whose graph is the continuous curve shown in Fig. 4.3.1, is approximated in two different ways by a polynomial of degree 10 in the interval $[-1, 1]$.

The dashed curve has been determined by interpolation on the **equidistant** net with eleven points ($m = 10$)

$$x_i = -1 + \frac{2i}{m}, \quad (i = 0, 1, 2, \dots, m), \quad (4.3.6)$$

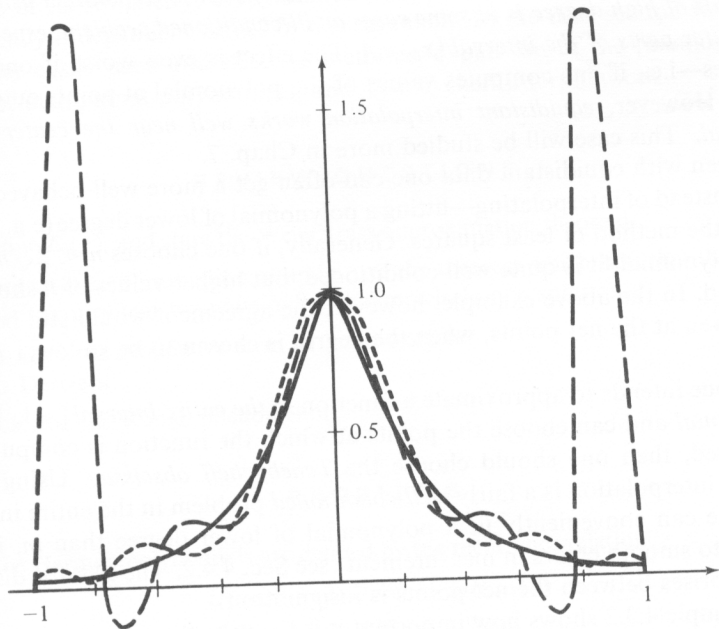


Fig. 4.3.1