Paper Source

Heremite Basis

Subject.

ડ્રિયાંર-3. (ઇ) 0#1

70=3; X1=5 $f(x_0) = 225$; $f(x_1) = 383$

f'(x0)= 77 : f'(x1)=80

G#2 We Know.

8 mif n=1,

deg = 2n+1=3:

P3(x)=f(x0)ho(x)+f(x)h(x)+f(x0) ho(x)+f(x0)h(x) = 275 ho(x) + 383 h,(x) + 77 ho(x) + 86 h,(x)

 $h_0(x) = 1 - 2(x-x_0) + b'(x) + b^2(x)$ = 1 - 2(1-3) (-1) (2-5)3.

 $h_1(x) = 1 - 2(x - x_1) \int_1^1 (x) \int_1^1 (x)$ = 1-2(4-5) (1) (23)2.

 $\int_0^\infty (x) = (x-x_0)|_0^\infty (x) = (x-3)\left(\frac{x-5}{-2}\right)^{2^n}$

 $\vec{b}_{1}^{\prime}(\alpha) = (\gamma(-\chi_{1}))^{\alpha}_{1}(\alpha) = (\chi-5)(\frac{\chi-3}{2})^{\gamma}.$

B(x) = 225 {(1-8(x-3)/-+)) (25) } +383. [(1-8(x-5)+)(25))) + 77 (x-3) (x-5)2+ 80 x (x-5) (x-3)2

 $P_{3}\left(\frac{4}{2}\right) = 225 \times \frac{(2-2)(x-5)^{2} + 363 \times \frac{(2-3)^{2}(x+6)}{4} + 77 \times \frac{(2-3)(x-5)^{2}}{4}$

+ 86 x (7-5) (7-3)"

P3(4) = 1913 = 303.25