بكن المالة عرورة) = المعرفة عند النقط التالب :- ا

Xo=41 , X1=0 , X2=1

أوعد الحدودة الملائمة لهذه الماله العربة لاعمرانع

: نستخم مرنت لأمورن للساف المتاوسة.

$$P_{n}(x) = \sum_{j=0}^{\infty} L_{j}(s) f_{j}$$

$$L_{j}(s) = \sum_{\substack{i=0 \ i \neq i}} \frac{(s-i)}{(i-i)}$$

$$\int_0^{\infty} (s) = \frac{(s-1)(s-2)}{(s-1)(s-2)} = \frac{1}{2} (s^2-3s+3)$$

$$\int_{1}^{1} (z) = \frac{(1-a)(1-5)}{(2)(2-2)} = -2(2-5) = -(2-5)$$

$$\sum_{z}(s) = \frac{(s)(s-1)}{(z-0)(z-1)} = \frac{1}{2}(s)(s-1) = \frac{1}{2}(s^2-s)$$

$$\beta \text{ut} \leq \frac{x-x_0}{\lambda} = \frac{x+1}{\lambda} \implies S = x+1$$

أوصر الحدودية الملائمة عدمنام فرلقة وجرانج لم أو فيرالقيمة للدالم من المرتق - كالمريد واحسب الحظ المرتكب

$$\begin{cases}
P_{n}(x) = \sum_{j \neq 3} P_{j}(x) & P_{j}(x) \\
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Pr(x)= - 1 10626 x +4.099

At x= 115 P2 (115)= 10.722 * $P_{n}(x) = \sum_{j=0}^{n} l_{j}(x) P_{j}(x)$ * $l_{j}(x) = \sum_{j=0}^{n} \frac{(x-x_{i})}{(x_{j}-x_{i})}$ 10(x): (x-x1)(x-x1)(x-x3) (x0-x1)(x0-x2)(20-x3) $f_{o(x)} = \frac{(-1)(-5)(-4)}{(x-5)(x-4)} = -\frac{8}{1}(x_3-4x_5+14)x_{-8}$ 1/(x): (x-x0)(x-x1)(x-x3) (x,-x0)(x,-x2)(x,-x3) $f'(x) = \frac{(x)(x-5)(x-4)}{(x)(x-5)(x-4)} = \frac{3}{1}(x^3 - 6x^5 + 8x)$ 15(x)= 1/x-x0)(x-x1)(x-x3) (x2-X0)(x2-X1)(x2-X3) $\int_{S} (x) (x) (x-1)(x-4) = -\frac{4}{1} (x_3 - 2x_5 + 4x)$ $\int_{3}(x) = \frac{(x^{3}-x^{0})(x^{3}-x^{1})(x^{3}-x^{5})}{(x^{2}-x^{0})(x^{2}-x^{1})(x^{2}-x^{5})}$ $\int_{3}^{3}(x) = \frac{(4)(3)(5)}{(x)(x-1)(x-5)} = \frac{54}{7}(x_{3}-3x_{5}+5x)$ B3(x) = 10(x) b(x0) + 11(x) f(x) + 55(x) b(x5) + 53(x) b 13(x): 3 (x3-1x3+111x-8) + 3 (x3-6x3+8x) -1 (x3-6x2+4x)+ = (x3-3x2+2x) P3(x): 2x3-3x2+13x-3 1 P3(x)= 7(x3-6x2+13x-6)/