```
B%. 19.解 R3(Xj)=f(Xj)-P(Xj)=0
                                                              R3'(x1) = f(x1) = P'(x1) = 0 j=k, k+1
                                     、Xx ,Xx+1 均为 Ri(X)的二重零点,因而有形式
                                                                                         R2(X) = K(X) (X-Xk) 2 (X-Xk+1)
                                  液 (t)=f(t)-p(t)-K(X)(t-Xk)2(t-Xkt)2
                               1 (Xx) = 0 , (XX) = 0 , (Xx) = 0 (Xx+1) = 0 (Xx+1) = 0
                                由罗尔定理,得,存在3, €(Xx,X), 3, €(X,Xph)有;
                                                                                            4/(3,)=0 4/(3,)=0
                               同理使用3次鄂空理有: 多6(氢, 产品) C(X1, X2) 使
                                                       4(4)(3)=0 , x 4(+)(+)== f(4)(+) - 4! K(X)
  (X) = \int_{(X)}^{(X)} \frac{f(X)}{f(X-X_{B})} \frac{f(X)}{f(X)} \frac{
                                  : K(x) = $ f(4)($)
                                   : P4(X) = - 1×1+3×+4×-2)(X-0)(X-1)(X->) 即为所求
23.解: f(x)=4x3,例 1h(x) 在新小区间 [Xk, XkH] 上表示为
                      In(X) = ( X-Xpt) 2 (1+ 2 X-Xp) Xp+ + ( X-Xpp) 2 (1+2 X-Xpt) Xpt) Xpt1
                                             +4 (x-Xkt) 2 (x-Xk)Xk+4 (x-Xk
Xk-Xkt) 2 (x-Xk)Xk+4 (x-Xk
Xk1-Xk) 2 (x-Xkt) Xk+1
|R(x)| = \left| \frac{f^{(4)}(3)(x - X_k)^2(x - X_{k+1})^2}{4!} \right| \le 4! \cdot \left( \frac{(X_{k+1} + X_k)}{2} - X_k \right)^2 \left( \frac{X_{k+1} + X_k}{2} - X_{k+1} \right)^2 + \frac{h^4}{2}
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$$\begin{array}{c} 24. \text{解} : \text{由ZN}. \text{将} \\ \hline M_0 = \frac{5''(277) - 3}{3(x^2 - x_1^2)^3} + \frac{(x^2 - x_1^2)}{M_1^2 + (x_1^2 - x_1^2)^3} + \frac{(x^2 - x_1^2)}{M_1^2 + (x_1^2 - x_1^2)^3} + \frac{(x^2 - x_1^2)^3}{M_1^2 + (x_1^2 - x_1^2)^3} + \frac{($$