In: 
$$u \in (^{\circ}(T0,1)]$$

(f)

(P)

 $W = \sum_{i=1}^{n} P_{i} V_{i}$ 

I perspective

I perspective

I perspective  $\frac{\|f(x+\delta x) - f(x)\|_{\mathcal{X}}}{\|\delta x\|_{\mathcal{X}}} = \frac{\|J^{h}(u+\delta u) - J^{h}(u)\|_{l_{\infty}}}{\|J^{h}(u+\delta u) - J^{h}(u)\|_{l_{\infty}}}$ 

$$= \frac{\| \int_{\infty}^{\infty} \| \int_{\infty}^{\infty}$$

$$U = \sum_{i=1}^{n} (P_i)V_i.$$

$$V_i = \sum_{j=1}^{n} \underbrace{x - a_i}_{a_j - a_i}$$

$$V_i = \sum_{j=1}^{n} \underbrace{x - a_i}_{pri-ts}$$

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I perspective
$$\begin{aligned}
&\left| \left| \int (x + \delta x) - f(x) \right| \right| &= \\
&\left| \left| \int x \right| \right| \\
&= \left| \left| \int u + \delta u \right| - \int u^{n}(u) \right| \right|_{L^{\infty}} \\
&= \left| \left| \int u + \left( \int u \right) \right| \right|_{L^{\infty}} \\
&= \left| \left| \int u + \left( \int u \right) \right| \right|_{L^{\infty}} \\
&= \left| \left| \int u + \left( \int u \right) \right| \right|_{L^{\infty}}
\end{aligned}$$

7 0 1/ =

$$I''(u) = \begin{cases} F_{1} & V_{1} - \sum_{i=1}^{n} M_{i} & N_{i} \end{cases}$$

$$= \begin{cases} \left\| \sum_{i=1}^{n} \int_{1}^{1} \left| \int_{1}^{\infty} \int_{1}$$

behavour of 1

 $\forall A^n \in R^n$ 

$$\frac{\partial c}{\partial n} = \frac{1}{n} \int_{-\infty}^{n} \frac{1}{n} \int_{-\infty}^{$$

2) 
$$\forall A'' \in R''$$
 $\exists f :$ 
 $\exists u = \infty$ 

P the best approximation

$$\Leftrightarrow \forall q \in P^n \quad || p - f||_{\infty} \leq || q - f||_{\infty} \leq || q - f||_{\infty}$$

$$||T''|| = \int \int \int \frac{||T''u||}{||u||} = \frac{1}{||u||} = \frac{1}{||u||}$$

$$f \in C^{n+1}([0,1]), \quad Saij_{i=1}^{n} \text{ int } ponts$$

$$\text{In } (0,1), \quad \forall x \in (0,1), \quad \exists \beta :$$

$$\left(f - T(f)\right) \left\{\beta\right\} =$$

$$= \left[\frac{f^{n+1}(\beta)}{G(x)}\right] \omega(x)$$

W 15 the 80-colled chracteristic polynomel

$$(\omega(x) = (-0))$$

$$(\alpha_i) = p(\alpha_i)$$

¥x∈ (0,1)

$$G(t) = \left( f(t) - \rho(t) \right) \omega(x) - \left( f(x) - \rho(x) \right) \omega(t)$$

G(t) exhibits M+2 roots

(solutions of G(t)=0)

=) G'(t) exhibits 2 zeros

(d'(t) exhibits 2 zeros

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 $\exists S_1, S_2 : \left| A(S_1) = A(S_2) = 0 \right|$ 

 $A'(t) = G^{n+1}(t) = 0$ 

$$G^{n+1}(t) = f^{n+1}(t) \cdot \omega(x) - \frac{1}{(p-1)!} = 0$$

$$- (f(x) - p(x) (n+1)! = 0$$

$$for t= 3$$

$$f(x) - p(x) (n+1)! = 0$$

$$f(x$$