P.U.9 定义:若多项式 Pan 可表为 Pan = $(x-x_0)^m \cdot g(x)$, 且 $g(x_0) \neq 0$, Jou $\frac{3}{4} - 2b$ 对称九是pux的加重根。多次加加是poxx面层表现。 证明: 九星p(x)的知量根。(k)2) $\sqrt{2}$: $\pm 1/3$ $\sqrt{2}$ $p(x) = (x-\chi_0)^k$. g(x) $\mathcal{Z}_1 \quad P(\alpha) = \left[p \cdot (\alpha - \chi_0)^{p+1} \cdot g(\alpha) + (\chi - \chi_0)^{p} \cdot g'(\alpha) \right]$ $= (\alpha - \chi_0)^{k-1} \left(k \cdot g(\alpha) + (\alpha - \chi_0) \cdot g'(\alpha) \right)$ μ_{α} $P(\alpha_0) = 0$, $k \cdot g(\alpha_0) + (\alpha_0 - \alpha_0) \cdot g'(\alpha_0) = k \cdot g(\alpha_0) \neq 0$ 即处是POX)的产1重报。 P.76.10 设fa)在(-a, a)有笔义,且fa)=fa),fa)首在。记明fa)=0 $vit: f(0) = \lim_{(X \to 0)} \frac{f(0+0X) - f(0)}{eX} = \lim_{(X \to 0)} \frac{f(-aX) - f(c)}{aX} = -\lim_{(X \to 0)} \frac{f(0-eX) - f(c)}{-aX} = -f(c)$ $\mu(\vec{p} = 2f(0) = 0, f(0) = 0$ $i\lambda: \lim_{\Delta X \to 0} \frac{f(x_0 + \delta X) - f(x_0 - \delta X)}{2 \cdot 4X} = \lim_{\Delta X \to 0} \frac{[f(x_0 + \delta X) - f(x_0)] - [f(x_0 - \delta X) - f(x_0)]}{24X}$ $=\frac{1}{z}\lim_{\Delta x \to 0}\left[\frac{f(\alpha_{\upsilon}+ox)-f(\alpha_{\upsilon})}{\Delta x}+\frac{f(\alpha_{\upsilon}-ox)-f(\alpha_{\upsilon})}{-\Delta x}\right]=\frac{1}{z}[f(\alpha_{\upsilon})+f(\alpha_{\upsilon})]=f(\alpha_{\upsilon}).$ $y=x^{2} \qquad 0 < t < \frac{\pi}{2},$ y(t) = (x(t), y(t)) y(t) = (x(t), y(t)) $\frac{1}{\chi} = \frac{\chi(t)}{\chi(t)} = \frac{\chi(t)}{\chi(t)} = \chi(t)$ $\chi(t) = t c m (t)$ $\gamma(t) = t c m^2 t$ P(t) =(tant, tanit) $V(t) = P(t) = (x(t), y(a)) = (sec^2t, ztant \cdot sec^2t)$

 $a(t) = v(t) = (2 \operatorname{sect} t \operatorname{cnt}, 2 \operatorname{sect} (\operatorname{sect} + \operatorname{tcm} t))$