P.181.9. 沙明下到学式。

Jun 1/4 - 84.

(1)
$$\operatorname{oresmin} X + \operatorname{orecon} X = \frac{\pi}{2}$$
, $-1 \le x \le 1$

$$\vec{v}_{L}: \vec{v}_{L} f(\alpha) = \operatorname{cresm} x + \operatorname{cresn} x, \ 2\pi f(\alpha) = \frac{1}{\sqrt{1-\chi^{2}}} - \frac{1}{\sqrt{1-\chi^{2}}} = 0, \ f(\alpha) = C.$$

$$2 f(1) = \operatorname{cresm} 1 + \operatorname{cresn} 1 = \frac{\pi}{2} + 0 = \frac{\pi}{2}, \ \text{with } f(\alpha) = f(1) = C = \frac{\pi}{2}.$$

$$P_{P} \quad \operatorname{cresm} x + \operatorname{cresn} x = \frac{\pi}{2}.$$

(2)
$$\arctan X = \arcsin \frac{\chi}{\sqrt{1+\chi^2}}$$
, $-\infty < \chi < + 10$.

$$i\lambda : i\lambda = f(x) = \arctan x - \arcsin \frac{x}{\sqrt{1+\chi^2}}$$

$$2\eta f'(x) = \frac{1}{1+\chi^2} - \frac{1}{\sqrt{1-\frac{x^2}{1+\chi^2}}} \cdot \frac{\iint x^2 - x \cdot \frac{2x}{2J + x^2}}{(1+\chi^2)} = \frac{1}{1+\chi^2} - \frac{1}{1+\chi^2} = 0$$

Lip
$$f(x) = C$$
, if $f(1) = \operatorname{oreterm} 1 - \operatorname{orcSm} \frac{1}{\sqrt{2}} = \frac{\pi}{4} - \frac{\pi}{4} = 0$

If $f(\alpha) = 0$, if $\operatorname{creterm} X - \operatorname{oreSm} \frac{\chi}{\sqrt{1+\chi^2}} = 0$

$$\widehat{V}_{1}: 0 \qquad \widehat{Sm\chi}_{-}\widehat{SmO} = \underbrace{e_{5} \cdot (\chi - 0)}_{0 < 3} \quad 0 < 3 < \chi$$

$$\widehat{Sm\chi}_{-} = \underbrace{e_{5} \cdot \chi}_{0} < 1 \cdot \chi \implies \widehat{Sm\chi}_{0} < \chi$$

(e)
$$i\chi f(x) = \frac{Sm\chi}{\chi}$$
, $f(x) = \frac{\gamma \cdot Gs\chi - Sm\chi}{\chi^2} = \frac{Gs\chi \cdot Gx - tcm\chi}{\chi^2}$
 $i\chi g(x) = \chi - tcm\chi$, $i\chi g(x) = 1 - \frac{1}{Gi\chi} \leq 0$, $i\chi g(x) \leq g(x) \leq 0$
 $i\chi f(x) < 0$, $i\chi = \frac{\pi}{2}$
 $i\chi f(x) < 0$, $i\chi = \frac{\pi}{2}$
 $i\chi f(x) = \frac{\pi}{2$