中山大學本科生考试草稿纸如次~7

警示 《中山大学授予学士学位工作细则》第七条:"考试作弊者不授予学士学位。"

$$\frac{P.76.13}{1+e^{\frac{1}{4}}}, x \neq 0$$

$$\frac{1}{1+e^{\frac{1}{4}}}, x \neq 0$$

$$\frac{1}{1+e$$

$$f'(o-c) = \lim_{\Delta X \to 0-} \frac{1}{\Delta X} \xrightarrow{f(c)} \frac{1}{\Delta X} \xrightarrow{f(c)} \frac{1}{\Delta X} = \lim_{\Delta X \to 0-} \frac{1}{\Delta X}$$

P.76.4 发 $f(x)=|x-\alpha|\cdot \varphi(x)$, 其中 $\varphi(\alpha)$ 在 $\chi=\alpha$ 处接续,且 $\varphi(\alpha)\neq 0$ 证明: f(x)在x=a处不多子.

$$\frac{7}{2} \cdot \frac{g(a+c) = \lim_{x \to a+0} \frac{f(x) - f(a)}{x - a} = \lim_{x \to a+0} \frac{|x - a| \cdot \varphi(x) - U}{x - a} = \lim_{x \to a+0} \frac{(x-a) \cdot \varphi(x)}{x - a} = \frac{\varphi(a)}{x - a} = \frac{\varphi(a)}{x - a} = \frac{f(a) - f(a)}{x - a} = \lim_{x \to a+0} \frac{(a-x) \cdot \varphi(x)}{x - a} = -\frac{\varphi(a)}{x - a}$$

$$\frac{f(\alpha+c) = \lim_{\Delta x \to 0+0} \frac{f(\alpha+cx) - f(\alpha)}{cx} = \lim_{\Delta x \to 0+0} \frac{|\alpha+cx - \alpha| \cdot g(\alpha+cx) - 0}{cx} = \varphi(\alpha)}{f'(\alpha-c) = \lim_{\Delta x \to 0+0} \frac{f(\alpha+cx) - f(\alpha)}{cx} = \lim_{\Delta x \to 0+0} \frac{|\alpha+cx - \alpha| \cdot \varphi(\alpha+cx) - 0}{cx} = -\varphi(\alpha)}{f'(\alpha+c) \neq f'(\alpha-c)} = \lim_{\Delta x \to 0+0} \frac{|\alpha+cx - \alpha| \cdot \varphi(\alpha+cx) - 0}{cx} = -\varphi(\alpha).$$