狼23中山大學本科生考试草稿纸如光-28

三元 《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。"

P.94.1 当x→0时 13小各建筑是又的几个元分、?

(1)
$$y = \chi + \chi^2 + i\omega \chi^3$$
;

$$\frac{1}{12} = \lim_{x \to 0} \frac{y}{x} = \lim_{x \to 0} \frac{x + 10x^2 + 100x^3}{x} = \lim_{x \to 0} (1 + 10x + 100x^2) = 1$$

(2)
$$y = (\sqrt{\chi+2} - \sqrt{2}) \sin \chi$$
;

$$\frac{1}{124} \cdot \frac{1}{127} \cdot \frac{1}{127} \cdot \frac{1}{127} = \lim_{x \to 0} \frac{1}{127} \cdot \frac{1}{127} \cdot \frac{1}{127} = \lim_{x \to 0} \frac{1}{127} \cdot \frac{1}{127$$

3)
$$y = \chi \cdot (1 - \omega \alpha)$$

(3)
$$y = \chi \cdot (1 - \cos \chi)$$

 $\frac{1}{14}$: $\lim_{\chi \to 0} \frac{y}{\chi^3} = \lim_{\chi \to 0} \frac{\chi \cdot q - \cos \chi}{\chi^3} = \frac{1}{2} \lim_{\chi \to 0} \frac{4 \sin \frac{2\chi}{2}}{\chi^2} = \frac{1}{2} \lim_{\chi \to 0} \left(\frac{\sin \frac{\chi}{2}}{\chi^2} \right) = \frac{1}{2}$.

P.95.2 次口: 当水→〇时, 又以一〇以) 记时: 又以一〇以)

$$\Rightarrow \langle \alpha \rangle = (\eta \alpha) \cdot \chi \cdot \chi$$

in lim
$$\eta(\alpha)=0$$
, ≈ 1 lim $\eta(\alpha) \cdot x = 0$

$$(3i2) + 4 \lim_{x \to 0} \frac{d(x)}{x^2} = 0 \quad \text{in} \quad x \cdot \frac{d(x)}{x^2} = 0$$

$$\lim_{x\to 0}\frac{\Delta(x)}{x}=0, \ \Delta(x)=0$$