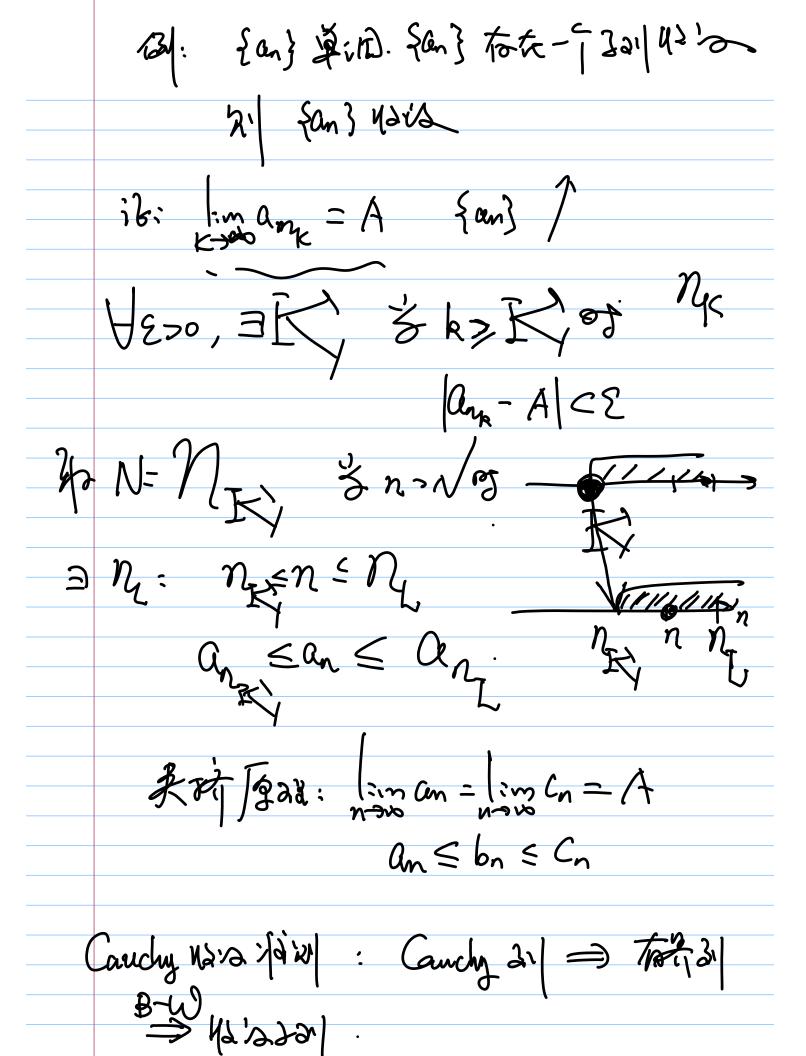
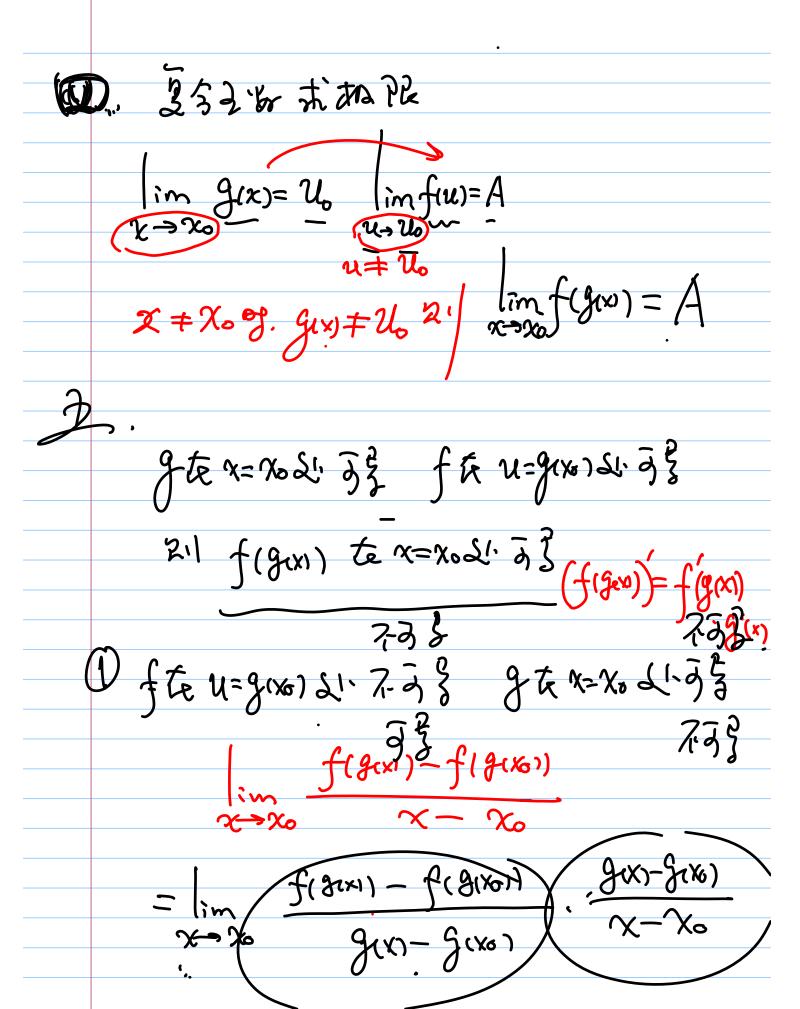


{agn-1} {azn} {azn+1}



倒归有骨性之之礼 fm足[a.h) ははるめなり fm) 有る ve: 122 /2 fran fing. YM=0, 3xE(ab) |fx) > M. How=1 3x1 ... | fx1) > 1  $M: n \supseteq x_n \in (a.b) \mid f(x_n) \mid >M$  $|\sin f(x_n) = \infty \qquad |\cos x \cos x| \qquad |\cos x$ 何2:最大部位之日 美的 643: f ∈ C[a.h] .. \ x ∈ [a.h] ] y ∈ [a.b]  $|f(8)| \le \frac{1}{2}|f(x)|$  i'z: 21%, f(8) = 0.

$$|\xi| = \sqrt{x_{1}} (x_{1}) + \sqrt{x_{$$



$$f(u) = (u) \qquad g(x) = \chi^2$$

$$\chi_0 = 0$$

$$f(g(x)) = \chi^2$$

$$f(x) = g(x) = D(x)$$

$$f(g(x)) = 1$$

$$ib: /2 F(x) = f(x) e^{-\alpha x}$$
  $F(a) = F(b) = 0$   
 $2\xi \in (a.b) F'(\xi) = 0 F'(x) = f(x)e^{-\alpha x} + f(x)e^{-\alpha x}$ 

$$= e^{-\alpha x} (f(x) - \alpha f(x))$$

$$= e^{-\alpha x} (f($$

[2]: 
$$f(x) \in C[a,b] \cap D(a,b)$$
.  $a > 0$ 

$$f(a) = 0. \quad \forall b \neq 0$$

$$f(\xi) = \frac{b - \xi}{a} f'(\xi)$$

$$f(\xi) = \frac{b - \xi}{a} f'(\xi)$$

$$f(x) = \frac{b - x}{a} f'(x)$$

$$F(a) = 0, \quad F(b) = 0$$

$$f(b = 0) \quad f(b = 0)$$

$$f(b = 0)$$

'laylor /ar. O \$ Peano /svà: ftex=xod! D ton 27 3 bo  $f^{(x)} = \frac{\sum_{k=0}^{\infty} f^{(k)}(x)}{k!} (x \times x_0)^k + o((x \times x_0)^k)$ O/EMn239

1342: 
$$f \in D[o,1]$$
.  $f(o) = f(1)$ .  $|f'(x)| \le 2$   
 $|f'(x)| \le |f'(x)| \le |f'(x)|$ 

$$f(0) = f(x) + \frac{f'(x)}{1!}(-x) + \frac{f''(x)}{2!}(x)$$

$$f(1) = f(x) + \frac{f'(x)}{1!}(1-x) + \frac{f''(x)}{2!}(1-x)^{2}$$

$$|\hat{p}|_{3}: \quad f \in D^{2}(\mathbb{R}). \quad \forall x \in \mathbb{R} |f(x)| \leq M,$$

$$|f'(x)| \leq M_{2} \cdot i \cdot b \quad |f'(x)| \leq \frac{2M_{1}M_{2}}{2M_{1}M_{2}}$$

$$f(x+h) = f(x) + \frac{f(x)}{f(x)} h + \frac{f'(x)}{2!} h^{2}$$

$$f(x-h) = f(x) + \frac{f'(x)}{1!} (-h) + \frac{f''(x)}{2!} h^{2}$$

$$f(x+h) - f(x-h) = f'(x) + 2h + \frac{f''(x)}{2} h^{2} - \frac{f'(x)}{2} h^{2}$$

$$f'(x) = \frac{f(x+h) - f(x-h)}{2h} + \frac{f''(x)}{2} + \frac{f''(x)}{2$$

$$\leq \frac{M_1}{\lambda} + \frac{M_2h}{2}$$

$$\frac{2}{\sqrt{2}} = \frac{1}{\sqrt{2}} = \frac{1$$

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