恭勒公式· fx+f(x0)(x-x0)+f(x0)2 Try 6.32 没有x在[Dil]=们可导用与fixidx=0例 (A) 当于(20日), f(土) < 0. 1B). +1(x) <0 1C1 - flan >0 (D) P(x) >0 (solution). f(x)= f(\frac{1}{2}) + f(\frac{1}{2})(x-\frac{1}{2}) + \frac{f'(g)}{2}(x-\frac{1}{2})^2 =) f(=)=-(1 +"(6) (x-1) dx =)D 18416.14 设在处在[ab]=阿司马, |f(x) (st. +(xx)=0, +(xx) = c +0, xxx(ab). 且满化 Xo=f(Xo). 1) 4 x, e [a,b], xn+1=f(xn) (n=1,2...) 证明 Lim Kn 右在, 且 Lim Kn= Xo 2) Lim = XnH - Xo (Xo-Xo)2

fw= fx= fx+ fx= (x-x)+fxy (x-x)2 $x_0 = f(x_0) = f(x_0) +$ (先新后奏: $lin_{00} \times 0 = f(x_0)$. 4 再形成孔版 lun | xn= x01 = lun (f(xn) - f(x0) = lim | +1(6)||Xn-x0| ≤ ½ lin (xn-x0) ··· ≤ (½) (x, -x0). → 0. =) lim | Vn+1-X0 | = 0. lim xn= x0. 24 lim (xn-x0)2 f(xn)=f(x0)+f(xx)(x-x0) $=\lim_{n\to\infty}\frac{f(x_n)-f(x_0)}{(x_n-x_0)^2}+\frac{f''(x_0)}{2}(x-x_0)^2+o[(x-x_0)^2]$ = lim f(x) + lim f'(x) = C 顶16.12 设和V在区间[-a,a](a>0)上具有二阶码高导数 fio)=0. (1).写出fix) 带拉格部目分板的一阶麦克劳林成式。 (2). 证明:在[-0,0]上至少存在一点,们使0°f(1)=3(f(x)dx

(1).
$$f(x) = f(x_0) + f(x_0)(x - x_0) + \frac{f''(y)}{2!}(x - x_0)^2$$

 $x_0 = 0$: $f(x) = f(x_0) \times + \frac{f''(y)}{2!} \times^2$
(2). $\int_{-\alpha}^{\alpha} f(x_0) dx = \int_{-\alpha}^{\alpha} \frac{f''(y_0)}{2!} \times^2 dx = \int_{-\alpha}^{\alpha} \frac{f''(y_0)}{2!}$

12116119 设和在[01]上洲冈哥,且于10)=大小一口, fixi在[0/1]上最小值=一1,证明:至为存在一点 多 (10:1). 使力(生) >8. for=0 fup=-1 fax=0 (Solution). 「一九」= 「一九」= 千(岁) 下(X)= 十(1)— 1以上Q人最小值 figu-files fix = fix+ fix (x-a) + file (x-a)2 $f(x) = -1 + \frac{f''(g)}{2}(x-a)^2 + \frac{f''(g)}{2}(x-a)^2$ $x=0: f(0) = -1 + \frac{f''(g)}{2}(x-a)^2 + \frac{f''(g)}{2}(x-a)^2$ $f(x) = -1 + \frac{f''(g)}{2}(x-a)^2 + \frac{f''(g)}{2}(x-a)^2$ X=1 f(1)= -1+ f(2)(1-a)=0 $f''(g_1) = \frac{2}{\alpha^2} f''(g_2) = \frac{2}{(|-\alpha|^2)}$ 当 のもした) もにもりる 当のもした」) もになり 28

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