-1-

Liminal Analiza 8  $f: \mathbb{R} \to \mathbb{R} \quad \mathbb{R} \quad \mathbb{R} \quad \mathbb{R} \quad \mathbb{R} = \mathbb{R} \quad \mathbb{R} \quad$ 

THE SHARE SHARE

 $\sum_{m,0} \frac{GS(m \frac{\pi}{2})}{M!} \chi^{n} = \sum_{m,0} \frac{GS(m \pi)}{(2m)!} \chi^{2m}$ 

MELM

 $= \sum_{m \neq 0} \frac{(-1)^m x^m}{(2n)!} = 1 - \frac{x^2}{2!} + \frac{x^4}{4!} - \frac{x^6}{6!} + \dots$ 

$$T_{1, r, o}(x) = \sum_{h=0}^{\infty} \frac{f(h)}{h!} (x-o)h = \sum_{h=0}^{\infty} \frac{(h-1)h-1}{h!} (h-1).$$

$$\leq \frac{1}{m\tau} \left( \frac{1}{1+dm} \right)^{m+1} \leq \frac{1}{m+1} \rightarrow 0$$

 $\left| R_{l,m,s}(x) = \frac{1}{(m+1)!} \left( \frac{1}{(m+1)!} \left( \frac{1}{(m+1)!} \right) \right| = \frac{1}{(m+1)!} \left( \frac{1}{(m+1)!} \left( \frac{1}{(m+1)!} \right) \left( \frac{1}{(m+1)!} \left( \frac{1}{(m+1)!} \right) \right) = \frac{1}{(m+1)!} \left( \frac{1}{(m+1)!} \left( \frac{1}{(m+1)!} \right) \left( \frac{1}{(m+1)!} \left( \frac{1}{(m+1)!} \right) \right) = \frac{1}{(m+1)!} \left( \frac{1}{(m+1)!} \left( \frac{1}{(m+1)!} \right) \left( \frac{1}{(m+1)!} \left( \frac{1}{(m+1)!} \right) \right) = \frac{1}{(m+1)!} \left( \frac{1}{(m+1)!} \left( \frac{1}{(m+1)!} \right) \left( \frac{1}{(m+1)!} \left( \frac{1}{(m+1)!} \right) \right) = \frac{1}{(m+1)!} \left( \frac{1}{(m+1)!} \left( \frac{1}{(m+1)!} \left( \frac{1}{(m+1)!} \right) \right) = \frac{1}{(m+1)!} \left( \frac{1}{(m+1)!} \left( \frac{1}{(m+1)!} \left( \frac{1}{(m+1)!} \left( \frac{1}{(m+1)!} \right) \right) \right) = \frac{1}{(m+1)!} \left( \frac{1}{$  $\leq 2\left|\frac{1}{1+2\epsilon}\right| \leq 2\left(\frac{1}{1-|2\epsilon|}\right)^{n+1} \leq \left(\frac{1}{2}\right)^{n} \rightarrow 0$ 12/5/21 ( 12/ 5 1-12/ 5 1-12/ 5 1  $|z|(\frac{1}{3})$   $\frac{1}{\frac{1}{3}} = \frac{1}{3}$ 

Algo - 1. aflii f<sup>Cm</sup>(x) i z. majoresi Tf,m,o (24); z. modulo ole R,f,m,del

s'(x1= s (x1) = mifor con.

Det f: (a, b) -> R n.m. anditica daca & ce(o,b) 3 E > 0 3i ] sc (x)= \ m. o an, c-(26 + c)n ai f(x1=0x(x1 +x e(x,x+E)(c(a,le))  $R f_{n,\alpha} = \frac{f^{(n)}(x)}{n!}$   $R f_{n,\alpha} = \frac{f^{(n+1)}(x)}{(n+1)!} \cdot (x-\alpha)^{n+1}$   $\int_{\alpha}^{\alpha} \frac{f^{(n+1)}(x)}{(x-\alpha)^{n+1}} \int_{\alpha}^{\alpha} \frac{f^{(n)}(x)}{(x-\alpha)^{n+1}}$   $\int_{\alpha}^{\alpha} \frac{f^{(n)}(x)}{(x-\alpha)^{n+1}} \int_{\alpha}^{\alpha} \frac{f^{(n)}(x)}{(x-\alpha)^{n+1}}$ | Renal ( (2/1)! m+1 (x-c/n+1= [n (x-c)] 2 (2) n+1 1x-10/21 f=(8£,8£,8€)= f: Ri-R f (x,y, =/=x3y2+y3e2 = (3x2y, 2yx7+3y222, 22y3) 8 = 3xy= 84 = 24x3+342e= 8 = 2 = 2 = 2 y3

$$g: \mathbb{R}^{1} \longrightarrow \mathbb{R}^{2}$$

$$g' = \begin{pmatrix} \frac{\partial g_{1}}{\partial x} & \frac{\partial g_{1}}{\partial y} \\ \frac{\partial g_{2}}{\partial x} & \frac{\partial g_{1}}{\partial y} \end{pmatrix} = \begin{pmatrix} 5 \times 4y^{4} & 4y^{3} \times 5 \\ 5 \times 4 & 4y^{3} \end{pmatrix}$$

$$\frac{\partial g'}{\partial x} = \begin{pmatrix} \frac{\partial g_{1}}{\partial x} & \frac{\partial g_{1}}{\partial y} \\ \frac{\partial g_{2}}{\partial x} & \frac{\partial g_{2}}{\partial y} \end{pmatrix} = \begin{pmatrix} 5 \times 4y^{4} & 4y^{3} \times 5 \\ 5 \times 4 & 4y^{3} \end{pmatrix}$$