Z=F(x)=x3+y2-3xy=0 vy is a function of x" y=fa but not in Z = f(X,Y) = 0The implicit function implies that this equation imp defines y as a function of x. By Chain Jule We can shoe. Line Target to the

Jaylor Sories with continuous derivat f(x) = f(a+h) = f(a) + h f(a) + h f'(a)+ · · · + \( \frac{h}{(N-1)!} \) \( \lambda \) \( + \R\_N(h) \) 10/=10x9x8x.x1 71=7×6×5...×1 L. HS. "Approximation" h<<1 164 Six Six= Sin(ath) = Sin (30) + h Cos(300) + 10 (a=30°=I

Two Variables f(x,y) at a point (a,b) f(x,y) = f(a+h,b+k) = f(a,b) f(x,y) = f(a+h,b+k) = f(a+h,b+k) f(x,y) = f(a+h,b+k) = f(a+h,b+k) f(x,y) = f(a+h,b+k) = f(a+h,b+k) f(x,y) = f(a+h,b+k) f(x,y) = f(a+h,b+k) f(x,y) = f(a+h,b+k)

$$\int_{0}^{2} (2.02)^{3} + (2.97)^{2}$$

$$\int_{0}^{2} (2.02)^{3} + (2.97)^{2}$$

$$\int_{0}^{2} (2.3)^{2} = \int_{0}^{2} (2.3)^{2} + \int_{0}^{2} \int_{0}^{2} (2.3$$

$$\int_{2(20^{2})^{3} + (297)^{2}} f(202, 297) = f(202, 297)$$

$$= f(2,3) + [f(2,3)(-0.03)]$$

 $\frac{2(x,y)}{h=(x-a)^{1}} = \frac{2(1,1)}{1+1} + \frac{3z}{3x} + \frac{3z}{3x}$