其中: AX=X-Xo, Ay=y-yo, P= 16x13+4y)2 $\lim_{\rho \to 0} \frac{f(\rho) - f(\rho_0)}{\rho} = \lim_{\rho \to 0} \frac{f_{\varkappa}(\rho_0) \times \chi + f_{y}'(\rho_0) \times y + o(\rho)}{\rho}$

(3) 推广 N=f(x, y, 3)在Po(xo, yo, bo)可欲, 当 张 1 ho 存在 且 $\frac{\partial f}{\partial \Pi_{\nu}} = f_z'(\rho_0) \omega_S d + f_y'(\rho_0) \omega_S f + f_z'(\rho_0) \omega_S f$

< . β.) 是射线 L 的方向角

個1. 没f(x, y, d) = x + y2+ 33, 本于在Po(1, 1,1) 治方向是(2,-2,1) 的多向导教

 $f_{x}(P_{0}) = 1$, $f_{y}(P_{0}) = 2$ $f_{z}(P_{0}) = 3$ $\cos d = \frac{2}{\sqrt{2^2 + 2^2 + 1^2}} = \frac{2}{3}$ $\cos y = \frac{-2}{3}$ $\cos y = \frac{1}{3}$

ルゆ 新り。= 1x3+2x(-3)+3×3==

何之. 汶 $f(x, y) = \{ 0, 0 < y < x^2, -\infty < x < +\infty \}$

在10.0)不进续(当然也不可欲),但在10.0)治住何的的完全都在在。

$$\frac{1}{\sqrt{2}} \cdot \lim_{(x,y) \to 0} f(x,y) = 0 \qquad \lim_{(x,y) \to 0} f(x,y) = 1$$

$$y = kx \qquad y = \pm x^2$$

-Maglinolation