经主教与给处分

22f(X,y)是空间内的一张曲面



偏导数 Z= f(x,y) 关于, X的偏导数 记为 Zx 本标(x,y) 求 景

关于少的偏导数 圣/女子/C7,2)或是

计奔盖时,把对查或零数,双周退

131 Z=2xy2-3x2y+4x-7y3

$$\frac{dz}{dy} = 4xy - 3x^2 - 21y^2$$

$$\frac{1}{2} \frac{2}{2\sqrt{x^2-y}} = \frac{1}{2\sqrt{x^2-y}} \cdot 2x = \frac{x}{\sqrt{x^2-y}}$$

131 Z = X Y

Z=+(x,y) 50/7/6 dz \$ (1+(x,y)

73 = 35 · Tr + 35 · 94

$$\frac{\partial z}{\partial y} = \frac{\partial z}{\partial v} \cdot \frac{\partial v}{\partial x} + \frac{\partial z}{\partial u} \cdot \frac{\partial u}{\partial y}$$

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$$\frac{\partial z}{\partial v} =$$

$$Z = e^{-1} \ln V \quad U = \sinh t$$

$$V = t^2 + 2$$

$$\frac{dz}{dt} = \frac{dz}{du} \cdot \frac{du}{dt} + \frac{dz}{dv} \cdot \frac{dv}{dt}$$

$$= \ln v \cdot e^{-1} \cdot \cos t + \frac{e^{-1}}{v} \cdot 2t$$

$$= \ln (t^2 + 2) \cdot e^{-1} \cdot \cot t + \frac{e^{-1}}{v} \cdot 2t$$

$$= e^{-1} \left[ \ln (t^2 + 2) \cos t + \frac{2t}{v} \right]$$

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