平面曲段部分与路经旅

定理。U.D草基型 Opo按导数

$$\frac{(i)}{\partial x} = \frac{\partial P}{\partial y} = \frac{\partial P}{\partial y} = \frac{\partial P}{\partial y} = \frac{\partial P}{\partial y} + \frac{\partial P}{\partial y}$$

其中, 上岛山美兰, 路兰相图, P, Q在上,与上两周城城, D', 上海号框集.

(iii) & poherody = 0.

(iv> du= pdx+2dy wxn分一个原新及

月 U152+2= 「(5.も) pray dx+ななりのは 1次、302

 $\int_{1}^{3} \int_{1}^{3} \int_{1$ 

+ (2y wsx - 2. siny ) dy.

M (0,0) -> (11) 基ヤト: ツーズ.

 $\frac{1}{12} \cdot \frac{1}{1} = \int_{0}^{1} (2x^{2} \cos x^{2} - x^{2} \sin x) \cdot 1 \qquad \text{if } \frac{1}{12} = \frac{1}{12} \cdot \frac$ 

1 16 10 10 ---图结: 司息 = -zy sinX - zX siny 与络外域 部 = -7X sinj - zy sinX·+1 部 #新 1 = Supoter redy + Supder+ redy. 30-35-1 = 50 pcx,00 ohr + 50 Q11, y, dy = 5/2 x dx+5/124-105+125in) dy = 1-02 + CBI. (1202) + GBI - GBD =---构造新洲地院上"二上十分十年,西向 15 45 44 2 th of polar today = + \$ [ -17 dracky = -6. I+ I4+ 1/2.

 $AHB = \frac{1}{2} \frac{1}{2$ 

 $u(x, y) = \int (2x \cdot \cos y - y^2 \sin x) dx$   $= \chi^2 \cos y + y^2 \cos x + \int \cos x + \int \cos x$ 

$$\frac{\partial u}{\partial y} = -\chi^2 \sin y + 2y \cos \chi + c(y) = 2y \cos \chi - \chi^2 \sin y$$

$$c(y) = 0. \Rightarrow c(y) = 0.$$

 $\frac{1}{2}$ E.  $u(x,y) = x^2 c(x,y) + y^2$ , c(x,y) + C.

$$\begin{array}{lll}
\text{Spin (Sit)} & \text{Monty)} & \text{Monty} \\
\text{Most} & \text{Most} \\
\text{Most} & \text{Most}$$

$$= \int_{0}^{5} p(x_{3}, 0) dx + \int_{0}^{4} (2y \cos (5 - 3^{2} \sin y)) dy$$

$$= \int_{0}^{5} 2x dx + \int_{0}^{4} (2y \cos (5 - 3^{2} \sin y)) dy$$

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$$= \int_{0}^{5} 2x dx + \int_{0}^{4} 2x dx + \int_{0}^{4} 2$$

$$739. \ 1 = \int_{cl.27}^{33.47} (6707 - y^3) dx + (672y - 370y^2) dy$$
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$$Af: \frac{\partial R}{\partial x} = \frac{\partial f}{\partial y}.$$

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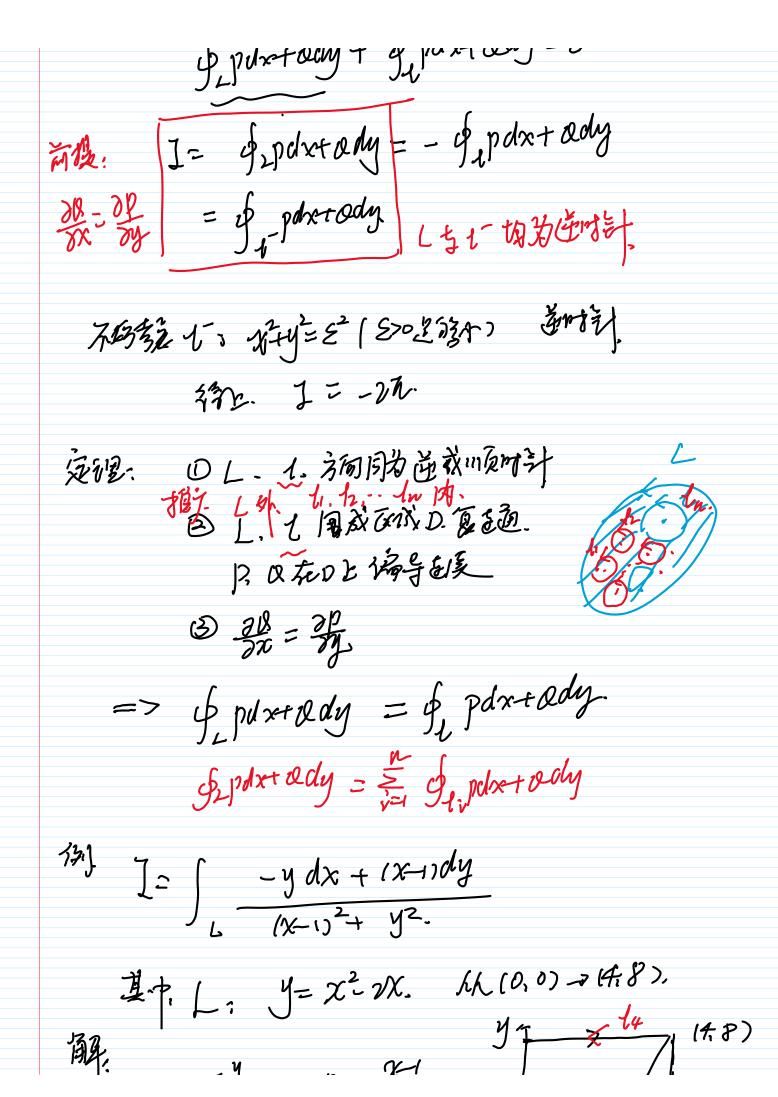
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 $\frac{\partial \mathcal{R}}{\partial \mathcal{R}} = \frac{1 \cdot 1 \chi^{2} + y^{2} - \chi_{2} + y^{2}}{(\chi^{2} + y^{2})^{2}} = \frac{\chi^{2} - y^{2}}{(\chi^{2} + y^{2})^{2}} = \frac{\partial \mathcal{R}}{\partial y}.$   $\frac{\partial \mathcal{R}}{\partial \mathcal{R}} = \frac{1 \cdot 1 \chi^{2} + y^{2} - \chi_{2}}{(\chi^{2} + y^{2})^{2}} = \frac{\partial \mathcal{R}}{\partial y}.$   $\frac{\partial \mathcal{R}}{\partial \mathcal{R}} = \frac{1 \cdot 1 \chi^{2} + y^{2} - \chi_{2}}{(\chi^{2} + y^{2})^{2}} = \frac{\partial \mathcal{R}}{\partial y}.$   $\frac{\partial \mathcal{R}}{\partial \mathcal{R}} = \frac{1 \cdot 1 \chi^{2} + y^{2} - \chi_{2}}{(\chi^{2} + y^{2})^{2}} = \frac{\partial \mathcal{R}}{\partial y}.$   $\frac{\partial \mathcal{R}}{\partial \mathcal{R}} = \frac{1 \cdot 1 \chi^{2} + y^{2} - \chi_{2}}{(\chi^{2} + y^{2})^{2}} = \frac{\partial \mathcal{R}}{\partial y}.$   $\frac{\partial \mathcal{R}}{\partial \mathcal{R}} = \frac{1 \cdot 1 \chi^{2} + y^{2} - \chi_{2}}{(\chi^{2} + y^{2})^{2}} = \frac{\partial \mathcal{R}}{\partial y}.$   $\frac{\partial \mathcal{R}}{\partial \mathcal{R}} = \frac{1 \cdot 1 \chi^{2} + y^{2} - \chi_{2}}{(\chi^{2} + y^{2})^{2}} = \frac{\partial \mathcal{R}}{\partial y}.$   $\frac{\partial \mathcal{R}}{\partial \mathcal{R}} = \frac{1 \cdot 1 \chi^{2} + y^{2} - \chi_{2}}{(\chi^{2} + y^{2})^{2}} = \frac{\partial \mathcal{R}}{\partial y}.$   $\frac{\partial \mathcal{R}}{\partial \mathcal{R}} = \frac{1 \cdot 1 \chi^{2} + y^{2} - \chi_{2}}{(\chi^{2} + y^{2})^{2}} = \frac{\partial \mathcal{R}}{\partial y}.$   $\frac{\partial \mathcal{R}}{\partial \mathcal{R}} = \frac{1 \cdot 1 \chi^{2} + y^{2} - \chi_{2}}{(\chi^{2} + y^{2})^{2}} = \frac{\partial \mathcal{R}}{\partial y}.$   $\frac{\partial \mathcal{R}}{\partial \mathcal{R}} = \frac{1 \cdot 1 \chi^{2} + y^{2} - \chi_{2}}{(\chi^{2} + y^{2})^{2}} = \frac{\partial \mathcal{R}}{\partial y}.$   $\frac{\partial \mathcal{R}}{\partial \mathcal{R}} = \frac{1 \cdot 1 \chi^{2} + y^{2} - \chi_{2}}{(\chi^{2} + y^{2})^{2}} = \frac{\partial \mathcal{R}}{\partial y}.$   $\frac{\partial \mathcal{R}}{\partial y} = \frac{1 \cdot 1 \chi^{2} + y^{2} - \chi_{2}}{(\chi^{2} + y^{2})^{2}} = \frac{\partial \mathcal{R}}{\partial y}.$   $\frac{\partial \mathcal{R}}{\partial y} = \frac{1 \cdot 1 \chi^{2} + y^{2} - 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x dy}.$   $\int_{4\mu}^{2\pi} \frac{y dx - x dy}{x^2 + y^2} = \int_{4\mu}^{2\pi} \frac{y dx - x dy}{y dx}.$   $\int_{4\mu}^{2\pi} \frac{y dx - x dy}{x^2 + y^2} = \int_{4\mu}^{2\pi} \frac{y dx - x dy}{y dx}.$   $\int_{4\mu}^{2\pi} \frac{y dx - x dy}{x^2 + y^2} = \int_{4\mu}^{2\pi} \frac{y dx - x dy}{y dx}.$   $\int_{4\mu}^{2\pi} \frac{y dx - x dy}{x^2 + y^2} = \int_{4\mu}^{2\pi} \frac{y dx - x dy}{y dx}.$   $\int_{4\mu}^{2\pi} \frac{y dx - x dy}{x^2 + y^2} = \int_{4\mu}^{2\pi} \frac{y dx - x dy}{y dx}.$   $\int_{4\mu}^{2\pi} \frac{y dx - x dy}{x^2 + y^2} = \int_{4\mu}^{2\pi} \frac{y dx - x dy}{y dx}.$   $\int_{4\mu}^{2\pi} \frac{y dx - x dy}{x^2 + y^2} = \int_{4\mu}^{2\pi} \frac{y dx - x dy}{y dx}.$   $\int_{4\mu}^{2\pi} \frac{y dx - x dy}{x^2 + y^2} = \int_{4\mu}^{2\pi} \frac{y dx - x dy}{y dx}.$   $\int_{4\mu}^{2\pi} \frac{y dx - x dy}{x^2 + y^2} = \int_{4\mu}^{2\pi} \frac{y dx - x dy}{y dx}.$   $\int_{4\mu}^{2\pi} \frac{y dx - x dy}{x^2 + y^2} = \int_{4\mu}^{2\pi} \frac{y dx - x dy}{y dx}.$   $\int_{4\mu}^{2\pi} \frac{y dx - x dy}{x^2 + y^2} = \int_{4\mu}^{2\pi} \frac{y dx - x dy}{y dx}.$   $\int_{4\mu}^{2\pi} \frac{y dx - x dy}{x^2 + y^2} = \int_{4\mu}^{2\pi} \frac{y dx - x dy}{y dx}.$   $\int_{4\mu}^{2\pi} \frac{y dx - x dy}{x^2 + y^2} = \int_{4\mu}^{2\pi} \frac{y dx - x dy}{y dx}.$   $\int_{4\mu}^{2\pi} \frac{y dx - x dy}{x^2 + y^2} = \int_{4\mu}^{2\pi} \frac{y dx - x dy}{y dx}.$   $\int_{4\mu}^{2\pi} \frac{y dx - x dy}{x^2 + y^2} = \int_{4\mu}^{2\pi} \frac{y dx - x dy}{y dx}.$   $\int_{4\mu}^{2\pi} \frac{y dx - x dy}{x^2 + y^2} = \int_{4\mu}^{2\pi} \frac{y dx - x dy}{y dx}.$ 极极入 (11) 都拉流。 G. p'dx+2dy = - ∫∫ (28 - 3f) dxdy= 2, = 7.12-Th  $I + \int_{S} p' dx + \alpha' dy = I + \int_{1}^{-1} 0 dx = I$  $\int_{2}^{\infty} \frac{y dx - \chi dy}{x^{2} + y^{2}}$ L. 强不过自己的封闭内境· 方面: 当附针 福、山上不到清楚 17

 $\frac{\partial x}{\partial x} = \frac{\partial y}{\partial y} \Rightarrow \int = 0$ P, Q死D能导级、拟证O O- LESTAZ 只及东印上在发生、不像处。 华殊情况: L. 光子。当时是 12 / ydx-xdy = fr | (-1-1) drely=-2. [, rokely =  $-\frac{2}{6}$ ,  $T_{1}R^{2}$  =  $-2\pi$ . 构造封环构践一七:顺州科 L51构造一个展面面成的, P. Rt. D' 裕强级.  $\oint_{L+1} p dx + ody = \iint_{D_1} \left( \frac{\partial R}{\partial x} - \frac{\partial P}{\partial y} \right) dx dy = 0.$ printacy + of partady =0



 $\frac{\partial f}{\partial x} = \frac{-y}{(x+1)^2 + y^2} \cdot \frac{\partial f}{\partial x} \cdot \frac{\partial f$  $J = \int_{h+1}^{h+1} p dx + Q dy$   $= \int_{0}^{h} \frac{Q-1}{(D-1)^{\frac{1}{2}} + Q^{2}} dy + \int_{0}^{4} \frac{Q-1}{(2-1)^{\frac{1}{2}} + Q^{2}} dy$   $= \int_{0}^{h} \frac{Q-1}{(D-1)^{\frac{1}{2}} + Q^{2}} dy + \int_{0}^{4} \frac{Q-1}{(2-1)^{\frac{1}{2}} + Q^{2}} dy$   $= \int_{0}^{h+1} \frac{Q-1}{(D-1)^{\frac{1}{2}} + Q^{2}} dy + \int_{0}^{4} \frac{Q-1}{(2-1)^{\frac{1}{2}} + Q^{2}} dy$   $= \int_{0}^{h+1} \frac{Q-1}{(D-1)^{\frac{1}{2}} + Q^{2}} dy + \int_{0}^{4} \frac{Q-1}{(2-1)^{\frac{1}{2}} + Q^{2}} dy$   $= \int_{0}^{h+1} \frac{Q-1}{(D-1)^{\frac{1}{2}} + Q^{2}} dy + \int_{0}^{4} \frac{Q-1}{(2-1)^{\frac{1}{2}} + Q^{2}} dy$   $= \int_{0}^{h+1} \frac{Q-1}{(D-1)^{\frac{1}{2}} + Q^{2}} dy + \int_{0}^{4} \frac{Q-1}{(2-1)^{\frac{1}{2}} + Q^{2}} dy$   $= \int_{0}^{h+1} \frac{Q-1}{(D-1)^{\frac{1}{2}} + Q^{2}} dy + \int_{0}^{4} \frac{Q-1}{(2-1)^{\frac{1}{2}} + Q^{2}} dy$   $= \int_{0}^{h+1} \frac{Q-1}{(D-1)^{\frac{1}{2}} + Q^{2}} dy + \int_{0}^{4} \frac{Q-1}{(2-1)^{\frac{1}{2}} + Q^{2}} dy$   $= \int_{0}^{h+1} \frac{Q-1}{(D-1)^{\frac{1}{2}} + Q^{2}} dy + \int_{0}^{h+1} \frac{Q-1}{(D-1)^{\frac{1}{2}} + Q^{2}} dy$   $= \int_{0}^{h+1} \frac{Q-1}{(D-1)^{\frac{1}{2}} + Q^{2}} dy + \int_{0}^{h+1} \frac{Q-1}{(D-1)^{\frac{1}{2}} + Q^{2}} dy$   $= \int_{0}^{h+1} \frac{Q-1}{(D-1)^{\frac{1}{2}} + Q^{2}} dy + \int_{0}^{h+1} \frac{Q-1}{(D-1)^{\frac{1}{2}} + Q^{2}} dy$   $= \int_{0}^{h+1} \frac{Q-1}{(D-1)^{\frac{1}{2}} + Q^{2}} dy + \int_{0}^{h+1} \frac{Q-1}{(D-1)^{\frac{1}{2}} + Q^{2}} dy$   $= \int_{0}^{h+1} \frac{Q-1}{(D-1)^{\frac{1}{2}} + Q^{2}} dy + \int_{0}^{h+1} \frac{Q-1}{(D-1)^{\frac{1}{2}} + Q^{2}} dy$   $= \int_{0}^{h+1} \frac{Q-1}{(D-1)^{\frac{1}{2}} + Q^{2}} dy + \int_{0}^{h+1} \frac{Q-1}{(D-1)^{\frac{1}{2}} + Q^{2}} dy$ 这法、投资是一多打开的党 [: | = | + 14+1/ 为证的对象 ] 构造的是打开的党 [: | 次方+生产 | 多口起源了一个各种之上 Li与Li 构造一个展色色图成的、 P. RAE的 描写进入 to gipaxtody = & paxtody.  $= \frac{1}{\Sigma^{2}} \int_{L_{2}^{2}} -y \, dx \, dx \, (x-1) \, dy.$   $= \frac{1}{\Sigma^{2}} \int_{L_{2}^{2}} |y| \, dx \, dy \quad \frac{3b'}{3x} = 1$   $= \frac{1}{\Sigma^{2}} \int_{0}^{1} (1-(-1)) \, dx \, dy \quad \frac{3b'}{3x} = 1$   $= \frac{1}{\Sigma^{2}} \int_{0}^{1} (1-(-1)) \, dx \, dy \quad \frac{3b'}{3x} = 1$ = + 2. TE = 2TV.

= = 2- TE2= 2TV. 92 portady= I+ Supotxtody+ Supotxtody. 第四年 对面积的自动形分 到一种面积的作品度。广于红彩之 M= 1 1/3, 1,51. 452 多对funyzo在至上有界 的领面到 图形证明上 为人们是打到,12,5005,16红棚的 fox 48) なると対例なる。時間なる (1型) rod II f(Xint) dS 附面面积元素 当fixy是)当时 JII dS=S hateranks

1克· 中部中毒之2

J f(x, yhz)が=f(ま, y, ち) · S ~ マチタのかり \_ 美から干きを変な

日对那时 \_\_\_\_ 美加于三重独分 172. 互好 Xoy面对称 其中写: 比邻分  $\implies \iint_{S} f dS = \begin{cases} 2 \iint_{S} f dS, f(x, y, z) = f(x, y, -8), \\ 0, -f(x, y, z) = f(x, y, -8). \end{cases}$ (in 云.具有好概对好)这 Sftx, 42, dS= Sfty 2, x) d5 ftz, x, y)(S.

例. 至:水子产产户。具有多针流对于人

 $\iint_{\Sigma} \chi^2 dS = \iint_{\Sigma} y^2 dS = \iint_{\Sigma} z^2 dS$  $= \frac{1}{3} \iint_{S} (\chi^{2} + y^{2} + z^{2}) dS = \frac{R^{2}}{3} \iint_{S} dS = \frac{R^{4}}{3} \cdot 4\pi R^{2}.$ 

 $\iint_{\Sigma} (ax+by+cz)^2 dS = \iint_{\Sigma} (a^2x^2+b^2y^2+c^2z^2) dS$ 

D: Xtyt 8 EK. 334. III X dw = = [[[x2+y42 du x = 1] re [[ du = 23. 47p.]  $=\frac{1}{3}\int_{0}^{2\pi}d\theta\int_{0}^{\pi}\sin\varphi d\varphi\int_{0}^{R}$   $r^{2}$   $r^{2}dv=...$ 1部的回报了2017年 - 主教会 1700 70 31X, y). My 4 Dxy. of S= 1 (+ Zx + Zy dxdy.  $tx \iint f(x,y,2) dS$ = Sf f(X, y, Z(X, y)), Ji+ Zx+Zy dxcly