习题 8.5

36

(1) 越线表产轴选转:

 $(\pm\sqrt{x^2+y^2})^2 - \frac{2^2}{C^2} = 1$

 $\frac{1}{2} \frac{\chi_{1}^{2} + y_{1}^{2}}{|x_{2}|^{2}} - \frac{2^{2}}{|x_{2}|^{2}} = \frac{1}{|x_{1}|^{2}}$

进戊戌y轴旋转:

1 - (±1x2+22)2 =1

= 12 - x72 = |

由随意和作准线到2014面点投 影拉面

そメナザナモシニチの人な程中消去り X+4+ ==00

由图式和 y=-x-是, 经0代理 x2+x2+2+22+22=4

⇒ x+x2+22=2即る所求技面被

37 世级上位一直M由直线上某些Mo超 CD到XOY和二投影曲战古程

乾の傳, 没M(x,y,t). Mo(xo,yo,to) { x+y+t=a2 の は移中が転る

: Yo=y, x+22=x0+20

\$ yo= -to, Alxo=to+1, 20=2 to+3

1. x2+2= 20+20

= 5 to +14 to+10

= 5y2-144+10

(、所求能够曲面)。古程为:

x2+22=5y2-14y+10

(2)到103种上段影曲线方程

二阿和曲线古程为 { 2=0

= to+2 to+1+4to+12to+9 {x2+42+22=020 tististsx 2 - V x2+420

> 22-y2-y2-22=22 > 2= 101

二.所求曲线方程的:

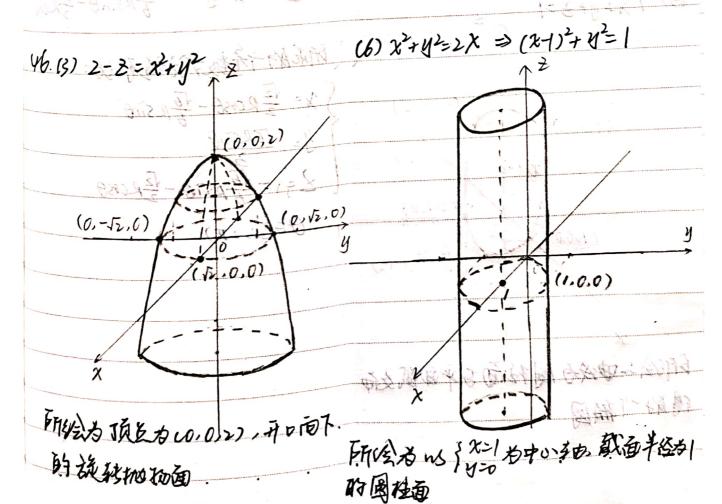
5 Z = 19 19 AC = x2+42

x=0 :ye [[] []

40.

は、民知直域に対す同間量 $\vec{u}_{0}=(2,2,1)$, は、そ= $\sqrt{4x^{2}+x^{2}}y^{2}$ (20.5) 並能解(1,2,3) 校 1 届 (数 1, 2 - 2, 2 - 3) 所 = (x - 1, y - 2, 2 - 3) イ加 5 成 2 間 - 東州 4 世 (報南 - 16 是 元) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - | (0.15) (0.15) - |

>11x2+1142+2322xy+16x2+1642 -6x-60y-1862+342=0 所以为顶点为 co, o, o) 的二半个种国



 $47. (1) \begin{cases} \frac{1}{2} = \sqrt{10} - x^{2} - y^{2} \oplus y^{2} \\ \frac{1}{2} = x^{2} + y^{2} \oplus y^{2} \end{bmatrix}$ $(12.0) \begin{cases} \frac{1}{2} = x^{2} + y^{2} + \frac{1}{2} = p^{2} \oplus y^{2} \\ \frac{1}{2} = x^{2} + y^{2} + \frac{1}{2} = p^{2} \oplus y^{2} \end{bmatrix}$ $(12.0) \begin{cases} \frac{1}{2} = x^{2} + y^{2} + \frac{1}{2} = p^{2} \oplus y^{2} \\ \frac{1}{2} = x^{2} + y^{2} + \frac{1}{2} = p^{2} \oplus y^{2} \end{bmatrix}$ $\Rightarrow \frac{1}{2} = \frac{1+\sqrt{17}}{2} = \chi^2 + y^2$

所绘的曲线的以 CCO.O. 117-1273 => y= VERSING 图UI, 10-1 为约的图图 X= 空ROSO-16 RSINO

(0,1,2)

(1,00)

@PVO +13

2x2+2xy+2y=R2

ラ2(なすなり+生)+ラリニア

=> 2 (x+1/2)2+ = y2=R2

\$ (\(\sigma \cox + \frac{4}{2} \) = R coso [\sing

Z= -x-y= - 16 Rsino- 12 kgo

X(1) (3)、研花的一条数式的程序以为: X= \frac{12}{2} ROSO - \frac{16}{6} RSiNO y= TERSING 2= - 16 psing - 12 RCKB OG CO, 2TC)

所经二曲线为周柱面与平面截交流 得的一个椭圆

(\(\frac{12}{2}, \frac{12}{2}, \frac{1}{1} - \frac{1}{12} \right)