1. 
$$\iiint f(x,y,z) dv \stackrel{\text{12-3it}}{=} \iint dxdy \int_{\varphi(x,y,z)}^{\varphi(x,y,z)} f(x,y,z) dz$$

$$\frac{2}{2}$$
  $\int_{Z_1}^{Z_2} dz \iint_{Z_2} f(x,y,z) dx dy$ 

$$\iiint\limits_{\mathcal{N}}g(z)dv\stackrel{\text{AZ-$1}}{===}\int_{Z_{1}}^{Z_{2}}g(z)\cdot 6(z)\cdot dz$$

## 学用部面话的区域:

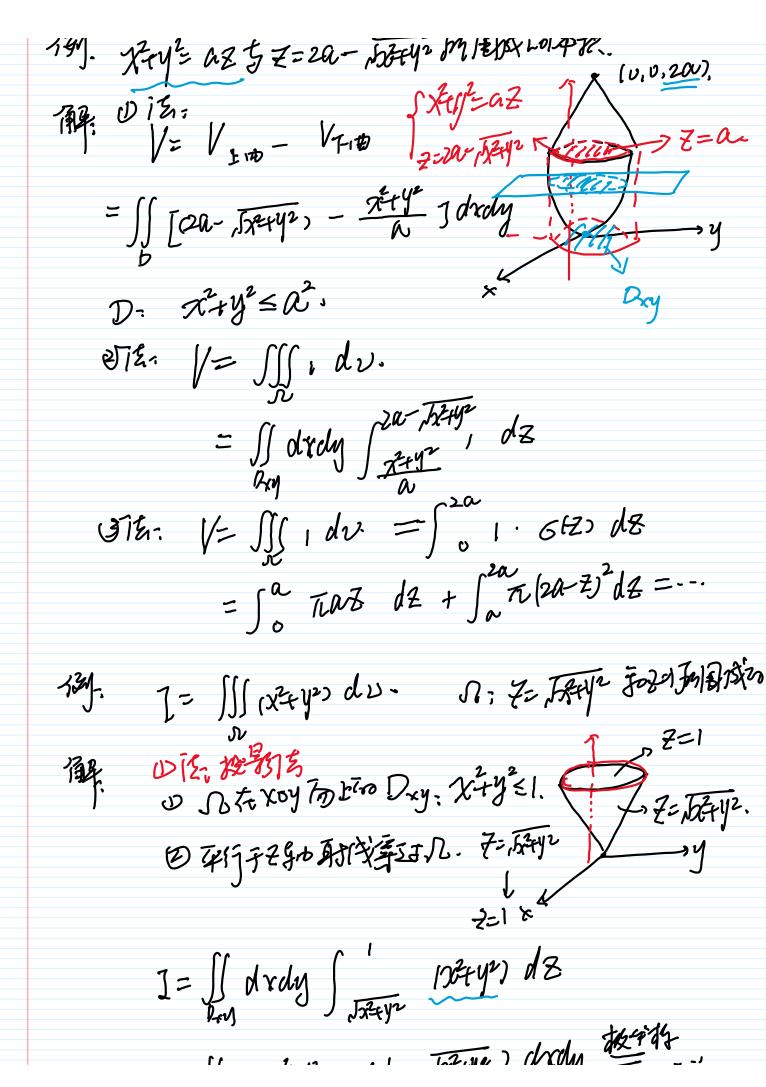
分区 2023-2024学年高数A下804-806 的第 1 页

Dz: Ney ? Z

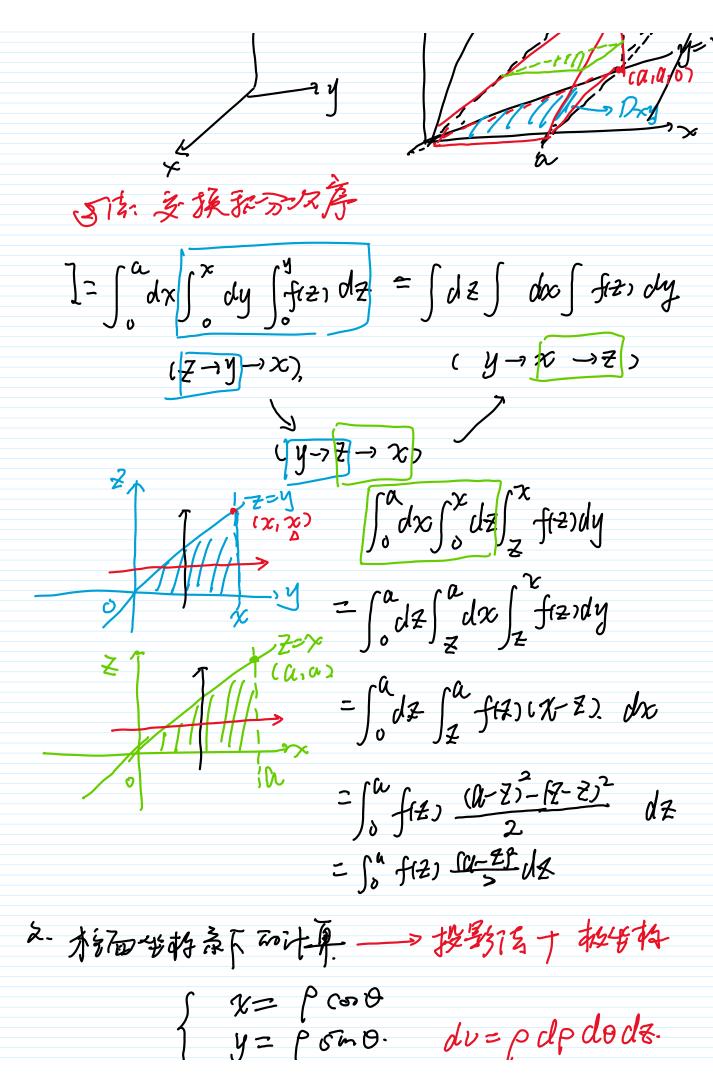
B. 2+42 < 62 232

我面包成: 是: 水子水兰至2

B. Rey SIZ.



= [ (x2+y2). [ - 1- 152+y2) chooly = 32. 191813 x0y2024. Dz. 1242 52. 12645 Dz 过程: 散励临  $I = \int_{0}^{1} dz \iint (x_{1}^{2} + y_{2}^{2}) dx dy$  $= \int_{0}^{1} \left[ \int_{0}^{2\pi} d\theta \int_{0}^{Z} \rho^{2} \rho d\rho \right] dz = - I = \iiint_{\mathcal{N}} f(z) dv. \xrightarrow{\overrightarrow{R}} \xrightarrow{\overline{R}} \int_{0}^{A} f(z) \frac{1}{6R} dz$ #2372 Jy dxdy 5 f(2) d2.  $= \int_{0}^{\infty} dx \int_{0}^{y} dy \int_{0}^{y} f(2)d2$ 



$$y = \rho \circ m \theta. \quad dv = \rho d\rho d\theta ds.$$

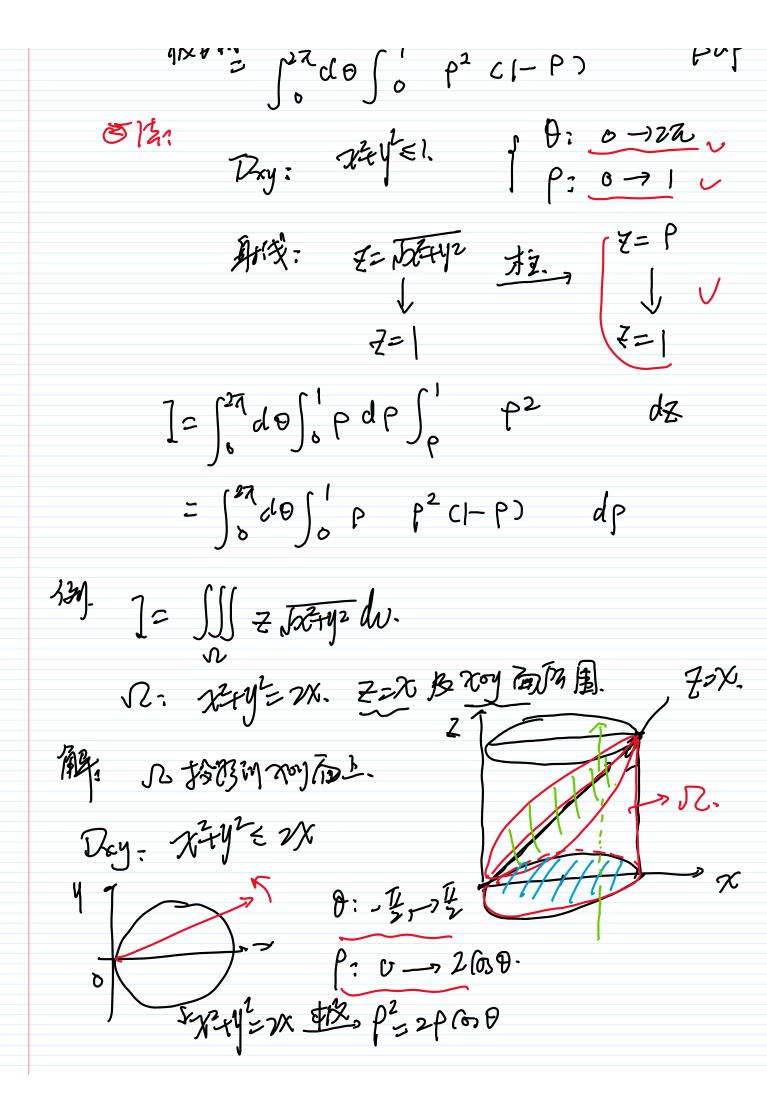
$$z = z.$$

$$\rho = \overline{p} dv dp$$

$$\theta = \overline{p} dv dp$$

$$\overline{q} = \overline{p} dv dv$$

$$\overline{q} =$$



中二年級 半年面

131.  $J_{i}=\iiint_{\mathcal{N}_{i}}f(x,y,z)dv$ ,  $\mathcal{N}_{i}$ :  $\mathcal{X}_{i}+\mathcal{Y}_{i}+\mathcal{Z}_{i}^{2}\in\mathcal{R}_{i}^{2}$ .

The  $I_1 = \int_0^{2\pi} c(\theta) \int_0^{\pi} sin\phi d\phi \int_0^{R} for singh (singlesing) resp. (2) in the singlesing of the single singlesing of the single single single singlesing of the single si$ 

Nz: 1444228p2 270.

 $I_{2}=\int_{0}^{2\pi}clo\int_{0}^{\frac{\pi}{2}}sh\varphi d\varphi\int_{0}^{R}f(---)t^{2}dr.$ 

523-: 1241225 pt pt. 27,0. 27,0. 27,0

 $1_3 = \int_0^{\frac{R}{2}} d\theta \int_0^{\frac{R}{2}} \sin \varphi \, d\varphi \int_0^{\frac{R}{2}} d\theta \int_0^{\frac{R}$