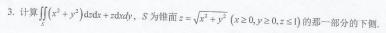


2. 计算 $\iint e^y dy dz + y e^x dz dx + x^2 y dx dy$, 其中 S 是抛物面 $z = x^2 + y^2$ 被平面 x = 0 , x = 1 , y = 0 ,

y=1所載得部分的上侧.



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

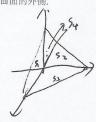




$$\begin{array}{l}
-75 \text{ if } = \int (x^2 y^2) d^3 dx + 3 dx dy. \\
= \int ((x^2 y^2) \cdot \frac{y}{x^2 y^2} - 3) dx dy. \\
= \int \int_0^2 d\theta \int_0^1 \rho \cdot (p \sin\theta \cdot \rho - \rho) d\rho
\end{array}$$

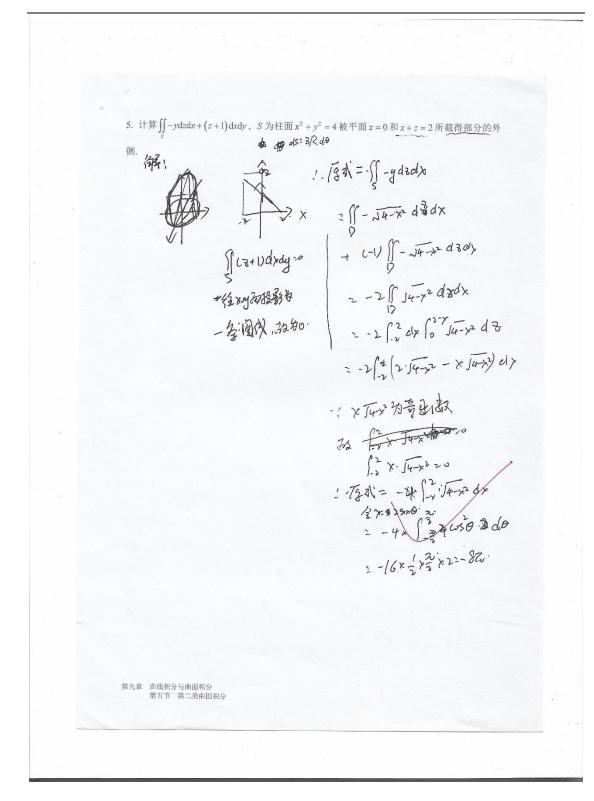
4. 计算 $\bigoplus xz dx dy + xy dy dz + yz dz dx$,S 是平面x + y + z = 1 与三坐标面所围成的空间区域的边

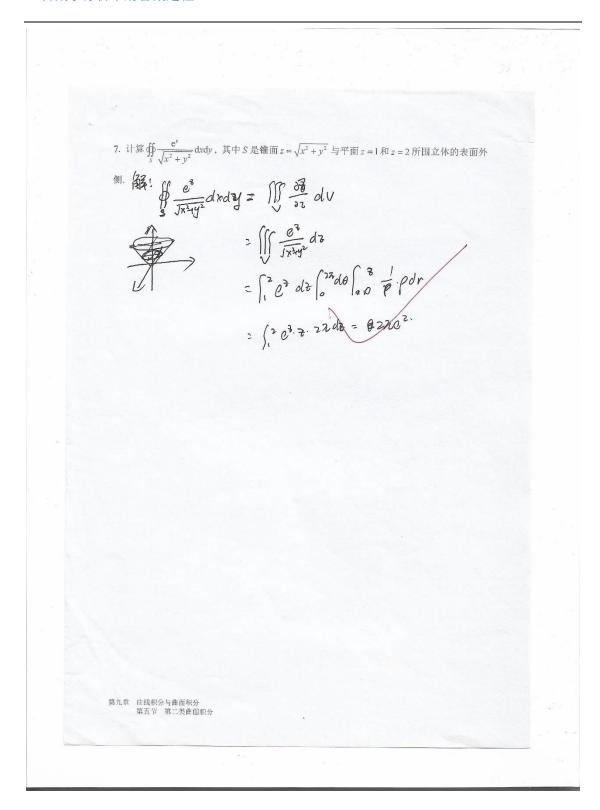
界曲面的外侧

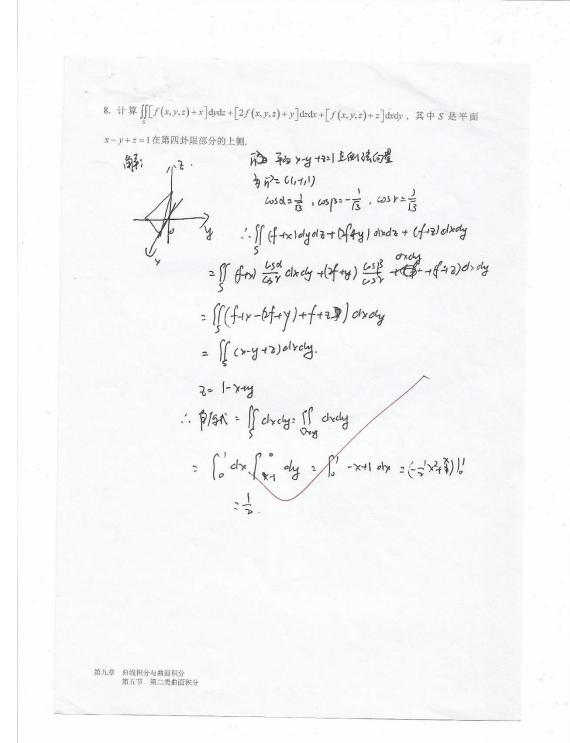


= 0+0+0.+ | x(1-x-y) elxay. = 1,1x elx 1,2x ((1-x)-y] cly = (1 = (1-x)^2 x dx = 1/24

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- 9. 把第二类曲面积分 $\iint_S X(x,y,z) dydz + Y(x,y,z) dzdx + Z(x,y,z) dxdy$ 化成第一类曲面积分,其中:
- (1) S 为抛物面 $z = 8 (x^2 + y^2)$ 在 xOy 面上方部分的上侧;