1. 古南省稻港下西江南

 $\iint_{\mathcal{D}} f(x,y) dxdy = \int_{a}^{b} dx \int_{\varphi_{i}(x)}^{\varphi_{i}(x)} f(x,y) dy = \int_{c}^{d} dy \int_{\gamma_{i}(y)}^{\gamma_{i}(y)} f(x,y) dx.$

] = Sfr. in dxdy. D: \$ {x*y^2 \in 1, 1070 Ay70.

 $1 = \int_{0}^{\pm} dx \int_{0}^{\sqrt{1-x^{2}}} f(x, y) dy + \int_{0}^{1} dx \int_{0}^{\sqrt{1-x^{2}}} f(x, y) dy + \int_{0}^{1} dy \int_{0}^{\sqrt{1-x^{2}}} f(x, y) dx + \int_{0$ This: $J: a \in x \in b$, $c \in y \in d$.

If $f(x) = \int_{a}^{b} dx \int_{c}^{d} f(x) dy$ If $f(x) = \int_{a}^{b} dx \int_{c}^{d} f(x) dy$

 $= \int_{c}^{d} dy \int_{a}^{b} f(x, y) dx$

FRICZ. D: asxeb, ceyed. Il for up=glow-huy).

Sfix, y) dxdy= sadx sad faxy) dy

 $=\int_{a}^{b} \overline{L} \int_{c}^{d} \underbrace{g(x)} \cdot h(u) dy \int dx$

= Jo [glx Jahy)dy]dx.

=[]a gox) dx][]d heydy]

= Fla SoxinxIFIC milland $\bar{L} \int_{a}^{b} f(x) \cdot g(x) dx \Big]^{2} \leq \bar{L} \int_{a}^{b} f^{2}(x) dx \Big] \bar{L} \int_{a}^{b} g^{2}(x) dx \Big].$ 73Y: (2, 7) = 13, 27/3, 82/ 150. ienf: 1512: pro = fox + t. gax). $\int_{\infty}^{b} h(x) dx \geq 0.$ (3) = [] fra grandx][[af(y).g(y)dy] = J[f(x)g(x)·f(y)g(y)] dxdy 其中D, MEXEB asysb. $f_{\alpha} = \left[\int_{\alpha}^{5} f(x) dx \right] \left[\int_{\alpha}^{5} g(y) dy \right]$ = $\iint_{\mathbb{R}} \left[\int_{\mathbb{R}}^{2} (x) - g^{2}(y) \right] dxdy$ り、美子、ソニススオライ $= \left[\int_{\omega}^{5} f'(y) dy \right] \left[\int_{a}^{5} g'(x) dx \right]$ Sfran do = J[Jan. gixn] dxdy < = Sfy 20 d6 = JJ f(x, w+ f(y,20) d6. = $\iint_{0} \frac{\int_{0}^{2} f(x) g(y) + f(y) g(x)}{2} dxdy.$ $\int \frac{f(x)g(y)+f(y)g(x)}{z} > f(x)g(x)f(y)g(y) \quad \text{i. to } > fz.$ 2. 极俗村是两件事

2. 极俗村录的许原

$$\begin{cases} x = \rho \cos \theta \\ y = \rho \sin \theta \end{cases}$$

Sfexind6 = Sfexin dray = Sfeparo, prop. d6

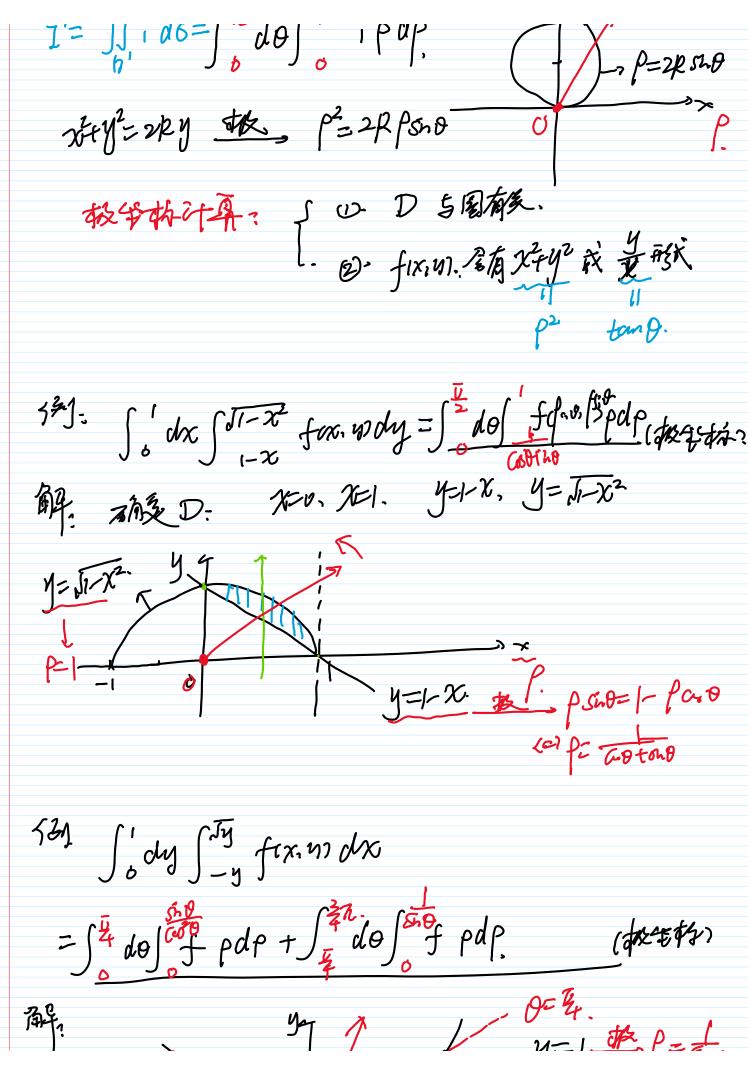
红草软

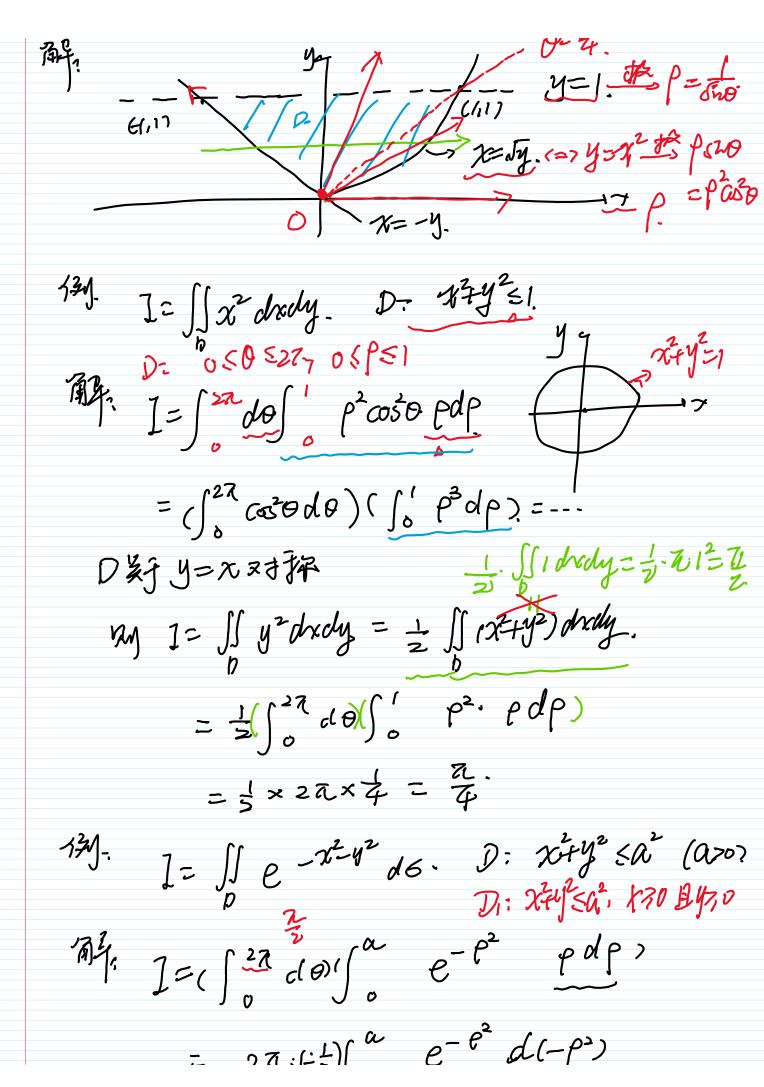
DBj= OK;-Dyz.

do=dxdy.

0-孝钦、射筏· 尼孝钦 圓 y fine property prope

 $\Delta 6_{i} = (7i P_{i}^{2} - 7i P_{i}^{2}) \cdot \frac{\theta_{i} - \theta_{i} + \theta_{i}}{2\pi}$ $= \frac{(P_{i} + P_{i}) \cdot \Delta P_{i}}{2} \cdot \Delta \theta_{i}$ $= \frac{(2P_{i} + \Delta P_{i})}{2} \cdot \Delta P_{i} \cdot \Delta \theta_{i}$ $= P_{i} \Delta P_{i} \cdot \Delta \theta_{i} + \frac{1}{2} (\Delta P_{i})^{2} \Delta \theta_{i}$ $\Delta 6_{i} \approx P_{i} \Delta P_{i} \Delta \theta_{i}$





$$= 2\pi i + \frac{1}{2} \int_{0}^{a} e^{-e^{2}} d(-e^{2})$$

$$= -\pi \cdot e^{-e^{2}} \Big|_{0}^{a} = \pi \cdot (1 - e^{-a^{2}}).$$

$$\int_{0}^{+\infty} e^{-x^{2}} dx = \frac{\pi}{2}.$$

$$\int$$

$$\int_{2}^{\infty} e^{-x} dx = \int_{0}^{\infty} e^{-x} dx$$

$$\int_{2}^{\infty} = \left(\int_{0}^{\infty} e^{-x} dx \right)^{2}$$

$$\lim_{\alpha \to \infty} \int_{0}^{\infty} e^{-x} dx = \lim_{\alpha \to \infty} J_{2} = \int_{0}^{\infty} \frac{dx}{dx} = \int_{0}^{\infty} \frac{dx$$

一载发生了一个多至三四一大子了两周的体况(CO20)

解

V= V= 1/200 - 1/10.

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