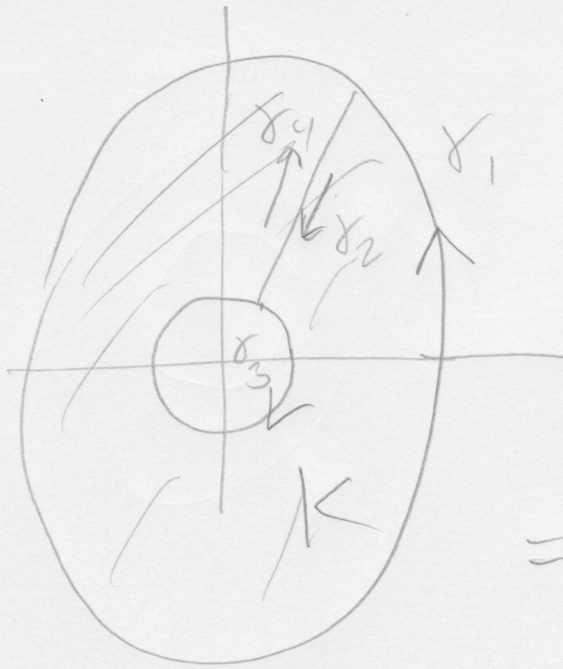


Dai,



$$\int F \cdot d\tilde{\gamma}$$

(7)

$$x_1 + x_2 + x_3 + x_4 = \tilde{\gamma}$$

$$= \iint_K \text{rot } F \cdot E \, dx \, dy$$

$$= \int_K 0 \, dx \, dy$$

$$= \int_{x_1} + \int_{x_3} = \int_{\gamma} - \int_{\gamma}$$

então

$$\int_{\gamma} F \cdot d\eta = \int_{\gamma} F \cdot d\gamma = \boxed{2\pi}$$

tambem!!