

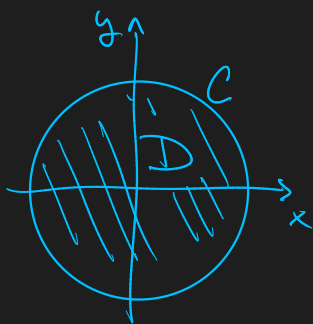
¿Cuándo usamos Jacobiano?

$$\sigma(t) = (\cos t, \sin t, z)$$

$$x = \cos t$$

$$y = \sin t$$

$$\int_C \vec{F} \cdot d\vec{s} = \dots =$$



$$Q_x - P_y = x^2$$

$$\int_C \vec{F} \cdot d\vec{s} = \iint_D 1 \, dx \, dy$$

$$= \int_{r=0}^1 \int_{\theta=0}^{2\pi} 1 \cdot r \, d\theta \, dr$$

$$x = r \cos \theta$$

$$y = r \sin \theta$$

$$\text{Jacobiano} = r$$