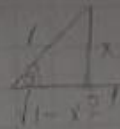


# Tarea 4

Tarea

$$\int \frac{x^2}{\sqrt{1-x^2}}$$



$$\begin{aligned} a &= 1 \\ b &= \sqrt{1-x^2} \\ c &= 1 \end{aligned}$$

$$\sin \theta = x$$

$$\frac{dx}{d\theta} = \cos \theta$$

$$\cos \theta = \sqrt{1-x^2}$$

$$dx = \cos \theta$$

$$\sin \theta = x$$

$$\int \frac{\sin^2 \theta}{\cos \theta} \cdot \cos \theta d\theta$$

$$\int \sin^2 \theta d\theta = \sin^2 \theta = \frac{1 - \cos(2\theta)}{2}$$

$$\int \frac{1 - \cos(2\theta)}{2} d\theta = \frac{1}{2} \int (1 - \cos(2\theta))$$

$$\frac{1}{2} \left( \theta - \frac{\sin(2\theta)}{2} \right)$$

$$\frac{1}{2} \left[ \sin^{-1}(x) - \frac{1}{2} \sin(2 \sin^{-1}(x)) \right]$$