

EJERCICIO M2BE23201

Resolva la siguiente integral:

$$\int \frac{2x}{\sqrt{x^2+3}} dx =$$

$$\int f(x)^n \cdot f'(x) dx = \frac{f(x)^{n+1}}{n+1} + C$$

$$= \int \underbrace{2x}_{f'(x)} \cdot \underbrace{(x^2+3)^{-1/2}}_{f(x)} dx =$$

$$= \frac{(x^2+3)^{-1/2+1}}{-1/2+1} = \frac{(x^2+3)^{1/2}}{1/2} =$$

$$= \boxed{2 \cdot \sqrt{x^2+3} + C}$$