

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

MÉTODO DE SUSTITUCIÓN

CAMBIO DE VARIABLE

$$x^2+3 = t^2$$

$$2x dx = 2t dt$$

$$= \int \frac{2t}{\sqrt{t^2}} dt = 2 \int \frac{t}{t} dt =$$

$$= 2 \int dt = 2t + C =$$

DESHACER CAMBIO DE VARIABLE

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