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

leT X = Seco dx = seco tono do

=-2
$$\int \frac{(\csc \theta + \csc \theta \cdot \cot \theta)}{\csc \theta + \cot \theta} d\theta \left\{ \frac{\dot{f}(x)}{f(x)} dx \right\}$$

$$=-2 \ln \left| \frac{x}{\sqrt{x^2-1}} + \frac{1}{\sqrt{x^2-1}} \right| + C$$

=
$$\ln \left(\frac{\sqrt{x^2-1}}{x^2-1} \right)^2 + C = \ln \left(x^2-1 \right) - 2 \ln \left(x+1 \right) + C$$