

QUESTION

Find  $\int \frac{dx}{\sqrt{x^2 + 2x}} dx.$

ANSWER

$$\int \frac{dx}{\sqrt{x^2 + 2x}} dx = \int \frac{dx}{\sqrt{(x+1)^2 - 1^2}} dx = \cosh^{-1}(x+1) + c$$