

**Primitivas de funciones elementales**

1.  $\int dx = x + C$
2.  $\int x^n dx = \frac{x^{n+1}}{n+1} + C$  si  $n \in \mathbb{R} \setminus \{-1\}$ .
3.  $\int \frac{1}{x} dx = \ln|x| + C$ .
4.  $\int t^n dt = \frac{t^{n+1}}{n+1} + C$  si  $n \in \mathbb{R} \setminus \{-1\}$ .
5.  $\int \frac{1}{t} dt = \ln|t| + C$ .
6.  $\int e^t dt = e^t + C$ .
7.  $\int a^t dt = \frac{a^t}{\ln a} + C$ .
8.  $\int \cos t dt = \sin t + C$ .
9.  $\int \sin t dt = -\cos t dt$ .
10.  $\int \frac{1}{\cos^2 t} dt = \int \sec^2 t dt = \int (1 + \tan^2 t) dt = \tan t + C$ .
11.  $\int \frac{1}{\sin^2 t} dt = \int \operatorname{cosec}^2 t dt = -\cot t + C$ .
12.  $\int \frac{1}{\sqrt{1-t^2}} dt = \arcsin t + C$ .
13.  $\int \frac{1}{1+t^2} dt = \arctan t + C$ .
14.  $\int \cosh t dt = \sinh t + C$ .
15.  $\int \sinh t dt = \cosh t dt$ .
16.  $\int \frac{1}{\cosh^2 t} dt = \tanh t + C$ .
17.  $\int \frac{1}{\sinh^2 t} dt = \coth t + C$ .
18.  $\int \frac{1}{\sqrt{1+t^2}} dt = \operatorname{arcsinh} t + C$ .
19.  $\int \frac{1}{\sqrt{t^2-1}} dt = \operatorname{arccosh} t + C$ .