

Table of indefinite integrals

- $\int x^n dx = \frac{x^{n+1}}{n+1} + C \quad (n \neq -1)$
- $\int \frac{1}{x} dx = \ln|x| + C$
- $\int e^x dx = e^x + C$
- $\int \sin x dx = -\cos x + C$
- $\int \cos x dx = \sin x + C$
- $\int \sec^2 x dx = \tan x + C$
- $\int \frac{\sin x}{\cos^2 x} dx = \sec x + C \quad = \int \sec x \tan x dx$
- $\int \frac{1}{1+x^2} dx = \arctan x + C$
- $\int \frac{1}{\sqrt{1-x^2}} dx = \arcsin x + C$