## Tabla de Integracion { integral indefinida }

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|---|---|
| $\int x^n dx = \frac{x^{n+1}}{n+1} + k$ | $\int u' \cdot u^n dx = \frac{u^{n+1}}{n+1} + c$ |
| $\int \frac{dx}{x \pm a} = Ln(x \pm a) + c$ | $\int \frac{u'}{u} dx = Ln(u) + c$ |
| $\int a^x dx = \frac{a^x}{Ln(a)} + c$ | $\int u' \cdot a^u dx = \frac{a^u}{Ln(a)} + c$ |
| $\int e^x dx = e^z + c$ | $\int u' \cdot e^u dx = e^u + c$ |
| $\int \text{sen}(x) dx = -\cos(x) + c$ | $\int u' \cdot \text{sen}(u) dx = -\cos(u) + c$ |
| $\int \cos(x) dx = \text{sen}(x) + c$ | $\int u' \cdot \cos(u) dx = \text{sen}(u) + c$ |
| $\int \frac{dx}{\cos^2(x)} = \text{tg}(x) + c$ | $\int \frac{u'}{\cos^2(u)} dx = \text{tg}(u) + c$ |
| $\int \frac{dx}{\text{sen}^2(x)} = -\cot\text{tg}(x) + c$ | $\int \frac{u'}{\text{sen}^2(u)} dx = -\cot\text{tg}(u) + c$ |
| $\int \frac{dx}{1+x^2} = \text{arctg}(x) + c$ | $\int \frac{u'}{1+u^2} dx = \text{arctg}(u) + c$ |
| $\int \frac{dx}{\sqrt{1-x^2}} = \text{arcsen}(x) + c$ | $\int \frac{u'}{\sqrt{1-u^2}} dx = \text{arcsen}(u) + c$ |
| $\int \frac{-dx}{\sqrt{1-x^2}} = \arccos(x) + c$ | $\int \frac{-u'}{\sqrt{1-u^2}} dx = \arccos(u) + c$ |

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## Propiedades fundamentales

$$\int [f(x) + g(x) - h(x)] dx = \int f(x) dx + \int g(x) dx - \int h(x) dx$$

$$\int k \cdot f(x) dx = k \cdot \int f(x) dx \qquad (k \in R)$$