



TABLA DE INTEGRALES

$$\int 1 \, dx = x + k$$

$$\int k \cdot x \, dx = k \cdot \int x \, dx$$

$$\int k \cdot u \, dx = k \cdot \int u \, dx$$

$$\int x^m \, dx = \frac{x^{m+1}}{m+1} + k$$

$$\int u' \cdot u^m \, dx = \frac{u^{m+1}}{m+1} + k$$

$$\int a^x \, dx = \frac{a^x}{\ln a} + k$$

$$\int u' \cdot a^u \, dx = \frac{a^u}{\ln a} + k$$

$$\int \frac{1}{x} \, dx = \ln(x) + k$$

$$\int \frac{u'}{u} \, dx = \ln u + k$$

$$\int e^x \, dx = e^x + k$$

$$\int u' \cdot e^u \, dx = e^u + k$$

$$\int u \pm v \, dx = \int u \, dx \pm \int v \, dx$$

$$\int \text{sen } x \, dx = -\cos x + k$$

$$\int u' \cdot \text{sen } u \, dx = -\cos u + k$$

$$\int \frac{1}{\text{sen}^2 x} \, dx = -\text{cot } g \, x + k$$

$$\int \frac{u'}{\text{sen}^2 u} \, dx = -\text{ctog } u + k$$

$$\int \cos x \, dx = \text{sen } x + k$$

$$\int u' \cdot \cos u \, dx = \text{sen } u + k$$

$$\int \frac{1}{\cos^2 x} \, dx = \text{tg } x + k$$

$$\int \frac{u'}{\cos^2 u} \, dx = \text{tg } u + k$$

$$\int \text{tg } x \, dx = -\ln(\cos x) + k$$

$$\int u' \cdot \text{tg } u \, dx = -\ln(\cos u) + k$$

$$\int \text{cot } g \, x \, dx = \ln(\text{sen } x) + k$$

$$\int \frac{1}{\sqrt{1-x^2}} \, dx = \arcsen x + k$$

$$\int -\frac{1}{\sqrt{1-x^2}} \, dx = \arccos x + k$$

$$\int \frac{1}{1+x^2} \, dx = \text{arctg } x + k$$

$$\int \frac{u'}{\sqrt{1-u^2}} \, dx = \arcsen u + k$$

$$\int -\frac{u'}{\sqrt{1-u^2}} \, dx = \arccos u + k$$

$$\int \frac{u'}{1+u^2} \, dx = \text{arctg } u + k$$