FORMULARIO - INTEGRALES

1.	$\int 1\,du = u + C$	16	$\int \sec^2 u\,du = \tan u + C$
2.	$\int u^n\,du = \dfrac{u^{n+1}}{n+1} + C,\ n \neq -1$	17	$\int \csc^2 u\,du = -\cot u + C$
3.	$\int (ax+b)^n\,dx = \dfrac{(ax+b)^{n+1}}{n+1}\dfrac{1}{a} + C,\ n \neq -1$	18.	$\int \sec u.\tan u\,du = \sec u + C$
		19.	$\int \csc u.\cot u\,du = -\csc u + C$
4.	$\int \dfrac{1}{u}\,du = \ln|u| + C$	20.	$\int \dfrac{1}{a^2+u^2}\,du = \dfrac{1}{a}\arctan\left(\dfrac{u}{a}\right) + C$
5.	$\int \dfrac{1}{ax+b}\,dx = \ln|ax+b|\dfrac{1}{a} + C$	21.	$\int \dfrac{1}{u^2-a^2}\,du = \dfrac{1}{2a}\ln\left|\dfrac{u-a}{u+a}\right| + C$
6.	$\int e^u\,du = e^u + C$	22.	$\int \dfrac{1}{a^2-u^2}\,du = \dfrac{1}{2a}\ln\left|\dfrac{u+a}{u-a}\right| + C$
7.	$\int e^{ax+b}\,dx = e^{ax+b}\dfrac{1}{a} + C$	23.	$\int \dfrac{1}{\sqrt{a^2-u^2}}\,du = \arcsen\left(\dfrac{u}{a}\right) + C$
8.	$\int a^u\,du = \dfrac{a^u}{\ln a} + C$	24.	$\int \dfrac{1}{\sqrt{u^2-a^2}}\,du = \ln\left|u + \sqrt{u^2-a^2}\right| + C$
9.	$\int \sen u\,du = -\cos u + C$	25.	$\int \dfrac{1}{\sqrt{u^2+a^2}}\,du = \ln\left|u + \sqrt{u^2+a^2}\right| + C$
10.	$\int \cos u\,du = \sen u + C$		
11.	$\int \cos(ax+b)\,dx = \sen(ax+b)\dfrac{1}{a} + C$	26.	$\int \dfrac{1}{u\sqrt{u^2-a^2}}\,du = \dfrac{1}{a}\arc\sec\left(\dfrac{|u|}{a}\right) + C$
12.	$\int \tan u\,du = \ln|\sec u| + C$	27.	$\int \dfrac{1}{u\sqrt{a^2-u^2}}\,du = -\dfrac{1}{a}\ln\left|\dfrac{a+\sqrt{a^2-u^2}}{u}\right| + C$
12.	$\int \tan u\,du = -\ln|\cos u| + C$	28.	$\int \dfrac{1}{u\sqrt{a^2+u^2}}\,du = -\dfrac{1}{a}\csc h^{-1}\left|\dfrac{u}{a}\right| + C$
13	$\int \cot u\,du = \ln|\sen u| + C$	29.	$\int \sqrt{u^2+a^2}\,du = \dfrac{1}{2}\left[u\sqrt{u^2+a^2} + a^2\ln\left(u + \sqrt{u^2+a^2}\right)\right] + C$
14.	$\int \sec u\,du = \ln|\sec u + \tan u| + C$	30.	$\int \sqrt{u^2-a^2}\,du = \dfrac{1}{2}\left[u\sqrt{u^2-a^2} - a^2\ln\left(u + \sqrt{u^2-a^2}\right)\right] + C$
15.	$\int \csc u\,du = \ln|\csc u - \cot u| + C$	31.	$\int \sqrt{a^2-u^2}\,du = \dfrac{1}{2}\left[u\sqrt{a^2-u^2} + a^2\sin^{-1}\dfrac{u}{a}\right] + C$

IDENTIDADES TRIGONOMÉTRICAS

1.	$\sin^2 x + \cos^2 x = 1$	7.	sen2x = 2senx.cosx
2.	$1 + \tan^2 x = \sec^2 x$	8.	senx.cscx = 1
3.	$1 + \cot^2 x = \csc^2 x$	9.	cosx.secx = 1
		10.	tanx.cotgx = 1
4.	$\cos^2 x = \dfrac{1}{2}(1 + \cos 2x)$	11.	$\sen x.\cos y = \dfrac{1}{2}(\sen(x-y) + \sen(x+y))$
5.	$\sen^2 x = \dfrac{1}{2}(1 - \cos 2x)$	12.	$\cos x.\cos y = \dfrac{1}{2}(\cos(x-y) + \cos(x+y))$
6.	cos2x = cos²x − sen²x	13.	$\sen x.\sen y = \dfrac{1}{2}(\cos(x-y) - \cos(x+y))$