TABLA DE INTEGRALES INMEDIATAS

1.- $\int dx = x + C$	2.- $\int k\ dx = kx + C$
3.- $\int \left(f(x) \pm g(x)\right) dx = \int f(x)\, dx \pm \int g(x)\, dx$	4.- $\int k \cdot f(x)\, dx = k \cdot \int f(x)\, dx$
5.- $\int x^n\ dx = \dfrac{x^{n+1}}{n+1} + C \qquad n \neq -1$	6.- $\int f'(x) \cdot f^n(x)\ dx = \dfrac{f^{n+1}(x)}{n+1} + C \qquad n \neq -1$
7.- $\int \dfrac{1}{x}\, dx = Ln\left\lvert x \right\rvert + C$	8.- $\int \dfrac{f'(x)}{f(x)}\, dx = Ln\left\lvert f(x) \right\rvert + C$
9.- $\int a^x\ dx = \dfrac{a^x}{Ln\ a} + C$	10.- $\int f'(x) \cdot a^{f(x)}\ dx = \dfrac{a^{f(x)}}{Ln\ a} + C$
11.- $\int e^x\ dx = e^x + C$	12.- $\int f'(x) \cdot e^{f(x)}\ dx = e^{f(x)} + C$
13.- $\int sen\ x\ dx = -\cos x + C$	14.- $\int f'(x) \cdot sen\ f(x)\ dx = -\cos f(x) + C$
15.- $\int \cos x dx = sen\ x + C$	16.- $\int f'(x) \cdot \cos f(x)\ dx = sen\ f(x) + C$
17.- $\int tg(x)\ dx = \int \dfrac{senx}{\cos x}\, dx = -Ln\left\lvert \cos x \right\rvert + C$	18.- $\int f'(x) \cdot tg\ f(x)\ dx = -Ln\left\lvert \cos f(x) \right\rvert + C$
19.- $\int \dfrac{1}{\cos^2 x}\, dx = tg\ x + C$	20.- $\int \dfrac{f'(x)}{\cos^2 f(x)}\, dx = tg\ f(x) + C$
21.- $\int \dfrac{-1}{sen^2 x} = \cot g\ x + C$	22.- $\int \dfrac{-f'(x)}{sen^2 f(x)}\, dx = \cot g\ f(x) + C$
23.- $\int \dfrac{1}{\sqrt{1-x^2}}\, dx = arcsen\ x + C$	24.- $\int \dfrac{f'(x)}{\sqrt{1-f^2(x)}}\, dx = arcsen\ f(x) + C$
25.- $\int \dfrac{-1}{\sqrt{1-x^2}}\, dx = arc\cos x + C$	26.- $\int \dfrac{-f'(x)}{\sqrt{1-f^2(x)}}\, dx = arc\cos f(x) + C$
27.- $\int \dfrac{1}{1+x^2}\, dx = arctg\ x + C$	28.- $\int \dfrac{f'(x)}{1+f^2(x)}\, dx = arctg\ f(x)$