1) $\int \frac{1}{a^2+x^2}dx = \frac{1}{a}arctg\left(\frac{x}{a}\right)+C$
2) $\int \frac{-1}{a^2+x^2}dx = \frac{1}{a}arccotg\left(\frac{x}{a}\right)+C$
3) $\int \frac{1}{a^2-x^2}dx = \frac{1}{a}\arg Th\left(\frac{x}{a}\right)+C = \frac{1}{2a}.\ln\left(\frac{a+x}{a-x}\right)+C$
4) $\int \frac{1}{x^2-a^2}dx = -\frac{1}{a}\arg Cotgh\left(\frac{x}{a}\right)+C = \frac{1}{2a}\ln\left(\frac{x-a}{x+a}\right)+C$
5) $\int \frac{1}{\sqrt{a^2-x^2}}dx = arcsen\left(\frac{x}{a}\right)+C$
6) $\int \frac{-1}{\sqrt{a^2-x^2}}dx = \arccos\left(\frac{x}{a}\right)+C$
7) $\int \frac{1}{\sqrt{x^2-a^2}}dx = \arg Ch\left(\frac{x}{a}\right)+C = \ln\left(x+\sqrt{x^2-a^2}\right)+C$
8) $\int \frac{1}{\sqrt{a^2+x^2}}dx = \arg Sh\left(\frac{x}{a}\right)+C = \ln\left(x+\sqrt{a^2+x^2}\right)+C$
9) $\int \sqrt{a^2-x^2}dx = \frac{x.\sqrt{a^2-x^2}}{2}+\frac{a^2}{2}.arcsen\left(\frac{x}{a}\right)+C$
10) $\int \sqrt{a^2+x^2}du = \frac{x\sqrt{a^2+x^2}}{2}+\frac{a^2}{2}.\ln\left(x+\sqrt{a^2+x^2}\right)+C$
11) $\int \sqrt{x^2-a^2}dx = \frac{x\sqrt{x^2-a^2}}{2}-\frac{a^2}{2}.\arg Ch\left(\frac{x}{a}\right)+C$
12) $\int \frac{dx}{x\sqrt{x^2-1}} = arcsec(x)+C$
13) $\int Sech^2(x).dx = Th(x)+C$
14) $\int Cosech^2(x).dx = -Coth(x)+C$

FUNCIÓN SIMPLE
$\int x^n\,dx = \frac{x^{n+1}}{n+1}+C, si\ n \neq -1$
$\int \frac{1}{x}\,dx = \ln\|x\| + C$
$\int e^x\,dx = e^x + C$
$\int a^x\,dx = \frac{a^x}{\ln a} + C$
$\int \operatorname{sen} x\,dx = -\cos x + C$
$\int \cos x\,dx = \operatorname{sen} x + C$
$\int \tan x\,dx = -\ln\|\cos x\| + C$
$\int \operatorname{cotan} x\,dx = \ln\|\operatorname{sen} x\| + C$
$\int \frac{1}{\cos^2 x}\,dx = \tan x + C$
$\int \frac{1}{\operatorname{sen}^2 x}\,dx = -\operatorname{cotan} x + C$