TYPE-1	TYPE-2	TYPE-3
$\int \frac{1}{Trigno} dx$: $\int \frac{1}{a + b\, cosx} dx$ Or $\int \frac{1}{a + b\, sinx} dx$ Or $\int \frac{1}{a\, cosx + b\, sinx + c} dx$	$\int \frac{Trigno}{Trigno} dx$ $\int \frac{a\, cosx + b\, sinx}{c\, cosx + d\, sinx} dx$	$\int \frac{Trigno + k}{Trigno + l} dx$ $\int \frac{a\, cosx + b\, sinx + k}{c\, cosx + d\, sinx + e} dx$
$Let \quad \tan\left(\frac{x}{2}\right) = t \Rightarrow dx = \frac{2dt}{1+t^2}$ $sinx = \frac{2t}{1+t^2}, \quad cosx = \frac{1-t^2}{1+t^2}$	$Nr = A(Dr)' + B(Dr)$	$Nr = A(Dr)' + B(Dr) + k$
$\int \frac{1}{x} dx = \log\lvert x\rvert + c$ $\int \frac{1}{x^2} dx = -\frac{1}{x} + c$ $\int \frac{1}{x^2+a^2} dx = \frac{1}{a}\tan^{-1}\left(\frac{x}{a}\right) + c$ $\int \frac{1}{x^2-a^2} dx = \frac{1}{2a}\log\left\lvert\frac{x-a}{x+a}\right\rvert + c$	$\int \frac{f'(x)}{f(x)} dx = \log\lvert f(x)\rvert + c$, $\int 1\, dx = x + c$	$\int \frac{f'(x)}{f(x)} dx = \log\lvert f(x)\rvert + c$, $\int 1\, dx = x + c$
$\int \frac{1}{5 + 4\, cosx} dx$, $\int \frac{1}{4 + 5\, sinx} dx$ $\int \frac{1}{4\, cosx + 3\, sinx} dx$, $\int \frac{1}{1 + sinx + cosx} dx$ $\int \frac{1}{3cosx + 4\, sinx + 6} dx$, $\int \frac{1}{sinx + \sqrt{3}\, cosx} dx$ $\int \frac{1}{5 + 4\cos 2x} dx$, $\int \frac{1}{2 - 3\cos 2x} dx$	$\int \frac{9\, cosx - sinx}{4sinx + 5\, cosx} dx$ $\int \frac{2\, cosx + 3\, sinx}{4\, cosx + 5\, sinx} dx$	$\int \frac{2\, cosx + 3\, sinx + 4}{3\, sinx + 4\, cosx + 5} dx$ $\int \frac{cosx + 3\, sinx + 7}{cosx + sinx + 1} dx$