Integral of the type $f[x,(ax+b)^{m_1/n_1},(ax+b)^{m_2/n_2}\ldots]$ where f is a rational function and m_1, n_1, m_2, n_2 are Integers.

To evaluate such type of integral, we transform it into an integral of rational function by putting $(ax+b)=t^s$, where s is the least common multiple (*L.C.M.*) of the numbers n_1, n_2.

Integrals of the form $\int x^m(a+bx^n)^p\,dx$

Case I: If $p \in N$ (Natural number). We expand the integral with the help of binomial theorem and integrate.