SUIMEÁIL (INTEGRATION) DIFREAIL (DIFFERENTIATION) Glactar a>0 agus fágtar tairisigh na $f'(x) \equiv \frac{d}{dx} [f(x)]$ f(x)suimeála ar lár. We take a>0 and omit constants of nx^{n-1} x^n integration. $\int_{0}^{\infty} f(x) dx$ $\frac{x^{n+1}}{n+1}$ lnx f(x)cos x $-\sin x$ $\sin x$ $x^n (n \neq -1)$ cos x sec2 x tan x sec x tan x sec x cosec x -cosec x cot x $\ln |x|$ -cosec² x cot x e* ex cos x sin x $\sin x$ -cos x eax aeax $\ln |\sec x|$ tan x

 $a^{x} \ln a$ sec x $\ln |\tan \frac{x}{2}|$ cosec x

a* $\ln | \sec x + \tan x |$ cos In sin x cot x sin