常用凑微分法

序号	原式	变式
1	$\int f(ax+b)\mathrm{d}x$ ($a eq 0$)	$rac{1}{a}\int f(ax+b)\mathrm{d}ax+b$
2	$\int f(\sin x)\cos x \mathrm{d}x$	$\int f(\sin x) \mathrm{d}(\cos x)$
3	$\int f(\cos x) \sin x \mathrm{d}x$	$-\int f(\cos x) \mathrm{d}(\cos x)$
4	$\int f(\ln x) \frac{1}{x} \mathrm{d}x$	$\int f(\ln x) \mathrm{d}(\ln x)$
5	$\int f(x^n) x^{n-1} \mathrm{d}x (n eq 0)$	$rac{1}{n}\int f(x^n)\mathrm{d}(x^n)$
6	$\int f(rac{1}{x^n})rac{1}{x^{n+1}}\mathrm{d}x(n eq 0)$	$-rac{1}{n}\int f(rac{1}{x^n})\mathrm{d}(rac{1}{x^n})$
7	$\int f(\tan x) \frac{\mathrm{d}x}{\cos^2 x}$	$\int f(\tan x) \mathrm{d}(\tan x)$
8	$\int f(\cot x) \frac{\mathrm{d}x}{\sin^2 x}$	$-\int f(\cot x) \mathrm{d}(\cot x)$
9	$\int f(\arcsin x) \frac{\mathrm{d}x}{\sqrt{1-x^2}}$	$\int f(\arcsin x) \mathrm{d}(\arcsin x)$
10	$\int f(\arctan x) \frac{\mathrm{d}x}{1+x^2}$	$\int f(\arctan x) d(\arctan x)$
11	$\int \frac{f'(x)}{f(x)} \mathrm{d}x$	$\int rac{\mathrm{d}f(x)}{f(x)} = \ln f(x) + C$