deriválási, integrálási azonosságok

$(f(x)g(x))' = f'(x)g(x) + f(x)g'(x)$
$\left(\frac{f(x)}{g(x)}\right)' = \frac{f'(x)g(x) - f(x)g'(x)}{g^2(x)}$
$(f(g(x)))' = f'(g(x))g'(x)$

$\int f(x)\,dx = F(x) + c$
$\int f'(x)g(x)\,dx = f(x)g(x) - \int f(x)g'(x)\,dx$
$\int f^n(x)f'(x)\,dx = \frac{f^{n+1}(x)}{n+1} + c$
$\int \frac{f'(x)}{f(x)}\,dx = \ln\lvert f(x)\rvert + c$
$\int f(ax+b)\,dx = \frac{F(ax+b)}{a} + c$
$\int f(u(x))u'(x)\,dx = \int f(u)\,du = F(u(x)) + c$

$f(x)$	$F(x)$
1	x
x^n	$\frac{x^{n+1}}{n+1}$
$\frac{1}{x}$	$\ln\lvert x\rvert$
e^x	e^x
$\sin x$	$-\cos x$
$\cos x$	$\sin x$
$\frac{1}{\cos^2 x}$	$\operatorname{tg} x$
$\frac{1}{1+x^2}$	$\operatorname{arc\,tg} x$