

FORMULAS FOR GENERAL ANTIDERIVATIVES

$f(x)$	$\int f(x)dx + C$
0	C
k	$kx + C$
x^n	$\frac{1}{n+1}x^{n+1} + C, \quad n \neq -1$
$\sin kx$	$-\frac{\cos kx}{k} + C, \quad k \neq 0$
$\cos kx$	$\frac{\sin kx}{k} + C, \quad k \neq 0$
$\sec^2 x$	$\tan x + C$
$\csc^2 x$	$-\cot x + C$
$\sec x \tan x$	$\sec x + C$
$\csc x \cot x$	$-\csc x + C$

$\int kf(x)dx$	$= k \int f(x)dx$
$\int f(x) \pm g(x)dx$	$= \int f(x)dx \pm \int g(x)dx$