

Table of Anti-Differentiation Formulas

Function Given	Its Anti-Derivative
x^n (and $n \neq -1$)	$\frac{x^{n+1}}{n+1}$
$\frac{1}{x}$	$\ln(x)$
e^x	e^x
$\cos(x)$	$\sin(x)$
$\sin(x)$	$-\cos(x)$
$\sec^2(x)$	$\tan(x)$
$\frac{1}{\sqrt{1-x^2}}$	$\sin^{-1}(x)$
$\frac{1}{1+x^2}$	$\tan^{-1}(x)$