

Sec 5.4: INDEFINITE INTEGRALS AND THE NET CHANGE THEOREM

Table Indefinite Integrals

Function	antiderivative	Function	General antiderivative
$\int x^n dx =$	$\frac{1}{n+1} x^{n+1} + C, \quad n \neq -1$	$\int e^{kx} dx =$	$\frac{1}{k} e^{kx} + C$
$\int \sin kx dx =$	$-\frac{1}{k} \cos kx + C$	$\int \frac{1}{x} dx =$	$\ln x + C, \quad x \neq 0$
$\int \cos kx dx =$	$\frac{1}{k} \sin kx + C$	$\int \frac{dx}{\sqrt{1 - k^2 x^2}} =$	$\frac{1}{k} \sin^{-1} kx + C$
$\int \sec^2 kx dx =$	$\frac{1}{k} \tan kx + C$	$\int \frac{dx}{1 + k^2 x^2} =$	$\frac{1}{k} \tan^{-1} kx + C$
$\int \csc^2 kx dx =$	$-\frac{1}{k} \cot kx + C$	$\int \frac{dx}{x \sqrt{k^2 x^2 - 1}} =$	$\sec^{-1} kx + C, \quad kx > 1$
$\int \sec kx \tan kx dx =$	$\frac{1}{k} \sec kx + C$	$\int a^{kx} dx =$	$\left(\frac{1}{k \ln a} \right) a^{kx} + C,$ $a > 0, a \neq 1$
$\int \csc kx \cot kx dx =$	$-\frac{1}{k} \csc kx + C$		
$\int \sinh kx dx =$	$\frac{1}{k} \cosh kx + C$		
$\int \cosh kx dx =$	$\frac{1}{k} \sinh kx + C$		

Tables Of Indefinite Integrals

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