

6.3 Antiderivatives Opener

Monday, January 16, 2017 2:35 PM

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F(x) Antiderivative	f(x) function	f'(x) Derivative
$-\cos x + C$	$\sin x$	$\cos x$
$\frac{3}{4}x^4 + \frac{10}{3}x^3 + 6x + C$	$3x^3 + 10x^2 + 6$	$9x^2 + 20x$
$\ln x + C$	$\frac{1}{x}$	$-x^{-2} = -\frac{1}{x^2}$
$e^x + C$	e^x	e^x
$\frac{x^2}{8} + C$	$\frac{x}{4} = \frac{1}{4}x$	$\frac{1}{4}$
$\tan x + C$	$\sec^2 x$	$2\sec x \cdot \sec x \cdot \tan x = 2\sec^2 x \tan x$
$\frac{e^{5x}}{5} = \frac{1}{5}e^{5x}$	e^{5x}	$5e^{5x}$

F(x)	f(x)	f'(x)
	$\sin x$	
	$3x^3 + 10x^2 + 6$	
	$\frac{1}{x}$	
	e^x	
	$\frac{x}{4}$	
	$\sec^2 x$	
	e^{5x}	

$$e^{i\alpha}$$

