# Some Important Rules Of Differential & Integral Calculus

Differentiation Rules			Intregration Rules	
1.	$\frac{d}{dx}(c) = 0$	1.	$\int 0 dx = 0 + c$	
2.	$\frac{d}{dx} x = 1$	2.	$\int dx = x + c$	
3.	$\frac{d}{dx} c x = c$	3.	$\int c  dx = cx + t$	
6.	$\frac{d}{dx} x^n = nx^{n-1}$	4.	$\int x^n dx = \frac{x^{n+1}}{n+1} + c$	
5.	$\frac{d}{dx}\frac{1}{x^n} = -\frac{n}{x^{n+1}}$	5.	$\int \frac{1}{x^n} dx = -\frac{1}{(n-1)x^{n-1}} + c$	
6.	$\frac{d}{dx}\sqrt{x} = \frac{1}{2\sqrt{x}}$	6.	$\int \frac{1}{\sqrt{x}} dx = 2\sqrt{x} + c$	
7.	$\frac{d}{dx}e^x = e^x$	7.	$\int e^x dx = e^x + c$	
8.	$\frac{d}{dx}e^{mx} = m e^{mx}$	8.	$\int e^{mx} dx = \frac{1}{m} e^{mx} + c$	
9.	$\frac{d}{dx}a^x = a^x \ln a$	9.	$\int a^x dx = \frac{a^x}{\ln a} + c$	
10.	$\frac{d}{dx}\ln x = \frac{1}{x}$	10.	$\int \frac{1}{x} dx = \ln x + c$	
11.	$\frac{d}{dx}\log_a x = \frac{1}{x}\log_a e$	11.		
12.	$\frac{d}{dx}\sin x = \cos x$	12.	$\int \sin x  dx = -\cos x + c$	
13.	$\frac{d}{dx}\cos x = -\sin x$	13.	$\int \cos x  dx = \sin x + c$	
1.4.	$\frac{d}{dx} \tan x = \sec^2 x$	14.	$\int \sec^2 x \ dx = \tan x + c$	
15.	$\frac{d}{dx}\cot x = -\csc^2 x$	15.	$\int \csc^2 x  dx = -\cot x + c$	
16.	$\frac{d}{dx}\sec x = \sec x \tan x$	16.	$\int \sec x \tan x = \sec x + c$	
17.	$\frac{d}{dx}\csc x = -\csc x \cdot \cot x$	17.	$\int \csc x \cot x = -\csc x + c$	
18.	$\frac{d}{dx}\sin^{-1}x = \frac{1}{\sqrt{1-x^2}}$	18.	$\int \frac{1}{\sqrt{1-x^2}} dx = \sin^{-1} x + c$	

# Math 21 120 Section 1 Differential And Integral Calculus

**Michael Hoelscher** 

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