	70	45	60
SIN	늘	된	图
C05	13 13 13	면지	크
tan	13	1	13

$$\int rac{ \lim_{x o 0} rac{ \sin x}{x}}{ \lim_{x o 0} rac{1 - \cos x}{x}} = 1$$
 યુપાયું $\lim_{x o 0} rac{1 - \cos x}{x} = 0$ યુપાયું $\lim_{x o 0} (1 + x)^{1/x} = e$ પ્રાપ્તાયું $\lim_{n o \infty} \left(1 + rac{1}{n}\right)^n = e$

米川智州和刘阳

$$f'(c) = \lim_{h \to 0} \frac{f(x+h) - f(x)}{h} = \lim_{x \to c} \frac{f(x) - f(c)}{x - c}$$
$$= \frac{dy}{dx} = \frac{d}{dx}f(x)$$

米明治

明治十一四年

4015004

$$\begin{pmatrix}
f(x) + g(x) \end{pmatrix} = f(x) g(x) + f(x) g(x) \\
\left(\frac{f(x)}{g(x)}\right)' = \frac{f(x) g(x) - f(x) g(x)}{g(x)^2}$$

米加奶

$$\frac{d^2y}{dn^2} = \frac{d}{dn} \left(\frac{dy}{dn} \right) \text{ oralizate}$$

$$f^{(N)}(1) = \begin{pmatrix} (-1)^k & | & N = 2k \\ (-1)^{k+1} & | & N = 2k - 1 \end{pmatrix}$$

米智特的明

$$(\sin x) = \cos x \qquad (e^x) = e^x$$

$$(\cos x) = -\sin x \qquad (\ln x) = \frac{1}{x} (x > 0)$$

$$(\cot x) = -\csc^2 x \qquad (a^x) = (\ln a) a^x$$

$$(\sec x) = \sec x \tan x \qquad (\log_a x) = \frac{1}{(\ln a) x}$$

$$\sin(\alpha + \beta) = \sin\alpha\cos\beta + \cos\alpha\sin\beta$$

$$\begin{cases} \sin^2 x + \cos^2 x = 1 \\ 1 + \tan^2 x = \sec^2 x \\ 1 + \cot^2 x = \csc^2 x \end{cases} \begin{cases} \csc x = \frac{1}{\sin x} \\ \sec x = \frac{1}{\cos x} \\ \cot x = \frac{1}{\tan x} \end{cases}$$

米码别相对

$$f(g(x))' = f'(g(x)) \cdot g'(x)$$

米部時間

$$(y^3+y^2-5y-1^2)=-4$$

*55%好到了

$$(f^{-1})'(y_0) = \frac{1}{f'(x_0)}$$

$$ex \cdot f(x) = \frac{1}{4}x^3 + x - 1$$

 $(f^{-1})'(x) = \frac{1}{f'(2)} = \frac{1}{4}$

*明粉粉料到5部件

$$(\arcsin y)' = \frac{1}{\sqrt{1 - y^2}} \qquad (\operatorname{arccot} y)' = -\frac{1}{1 + y^2}$$

$$(\operatorname{arccos} y)' = -\frac{1}{\sqrt{1 - y^2}} \quad (\operatorname{arc} \sec y)' = \frac{1}{|y|\sqrt{y^2 - 1}}$$

$$(\operatorname{arctan} x)' = \frac{1}{1 + y^2} \qquad (\operatorname{arc} \csc y)' = -\frac{1}{|y|\sqrt{y^2 - 1}}$$

* Weston

$$x_{n+1} = x_n - rac{f(x_n)}{f'(x_n)}$$

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- ・り出版ののたろうなる

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* १९७१ र यपायर 智用作智利的科学替太太明显

* +715 : 0,00,0x0,00-0,100,00,00°

p 叶环羽也: 인特州, · 港 赤山甘… L> गरमिम अभ (लेश्यमा)

*空壁(음,祭)

智州ないりいき当けりる 为114N多19%4. 「利ちるオルミントと時う that (simi) 1 , of lu(sinx)2)

*2712476F

- · 11<1 > f(11) < f(12) 53+
- · (a1674851: f1(1)70 → [a16] 51f 5(a,b)गास थेना ६ २६ HM २२ ५५2 对对什么的好是吃好

423,423

- · fizit->0+1== (->0>+)
- · 经机好 f"(大)70 > 아내용
- · f"(11)=0 ->2/12
- · f'(()=0, f"(() 70+f(()=2
- · f'(c)=0, f"(c)=0 -> 1/2/1X

* स्मिन्न प्रकारता का-| n=-1: | x-1 dx = lu|x|+c

 $\int \cos x dx = \sin x + c \qquad \int \sec x \tan x = \sec x + c$ $\int \sin x dx = -\cos x + c \int \csc^2 x dx = -\cot x + c$ $\int \sec^2 x dx = \tan x + c \quad \int \csc x \cot x = -\csc x + c$ $\int e^x dx = e^x + c$

$$\int a^x dx = \frac{1}{\ln a} a^x + c$$

$$\int \frac{1}{x} dx = \ln|x| + c$$

$$\int \frac{u'(x)}{u(x)} dx = \ln|u(x)| + c$$

부탁하면
$$X \sim N \left(\mu, \sigma^2\right)$$

$$\int uv' dx = uv - \int u'v dx$$

$$u : \text{olithog} \text{ events} \text{ in } xdx = \frac{1}{\sqrt{2\pi\sigma}} \frac{1}{\sigma} \frac{(z-\mu)}{\sigma}$$

$$v : \text{olithog} \text{ events} \text{ in } xdx = x \ln x - x + c$$

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