$$0 = \frac{\int \tan x \, dx}{\int \cot x \, dx} = \ln|\sin x| + C$$

Secarda =
$$\ln |\sec x + \tan a| + c$$

 $|\csc x | dx = |n| |\csc x - \cot x| + c$

(3)
$$\int \sqrt{\alpha \cdot x^2} \, dx = \arcsin \frac{x}{\alpha} + C$$

$$\int \frac{1}{\alpha^2 + x^2} \, dx = \frac{1}{\alpha} \arctan \frac{x}{\alpha} + C$$

$$\frac{4}{x^2-a^2} dx = \frac{1}{2a} \ln \left| \frac{x-a}{x+a} \right| + C$$

$$\frac{1}{x^2-x^2} dx = \frac{1}{2a} \ln \left| \frac{x+a}{x-a} \right| + C$$

(I)
$$\int \frac{1}{\sqrt{1+\alpha^2}} dx = \ln (x + \sqrt{1+\alpha^2}) + C$$

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等价元写心。

(1)
$$e^{\eta} = [+\eta + \frac{\chi^2}{2!} + \dots + \frac{\eta^n}{n!} + o(\chi^n)]$$

(3)
$$COSA = |-\frac{x^2}{2!} + \frac{x^4}{4!} + \cdots + F() + \frac{x^2n}{(2n)!} + O(x^2n)$$

(4)
$$\ln(Hx) = x - \frac{x^2}{5} + \frac{x^3}{5} + \dots + (-1)^n + \frac{x^{n+1}}{n+1} + o(x^{n+1})$$

$$(b) (++x)^{m} = |+mx| + \frac{m(m-1)}{2!} x^{2} + \cdots + \frac{m(m-1)\cdots(m-n+1)}{n!} x^{n} + o(x^{n}).$$

在X20处展于
$$f(x-x_0) + f(x_0) (x-x_0) + \frac{f(x_0)}{2!} (x-x_0)^2 + \dots + \frac{f(x_0)}{(x-x_0)!} (x-x_0)$$

表院特任我:
$$f(x) = f(0) + f(0) x + f(0) x^2 + ... + f(1) x^{net}$$

高阶级,

$$\frac{3}{(ax+b)^{(n)}} = \frac{(-1)^n \cdot (n!) \cdot a^n}{(ax+b)^{(n)}}$$

$$4) \cdot (e^{ax+b})^{(n)} = a^n \cdot e^{ax+b}$$

4).
$$(e^{ax+b})^{(n)} = a^n \cdot e^{ax+b}$$

$$\int t a n \alpha' = \sec \alpha$$

$$\int cot \alpha' = -\csc^2 \alpha$$

$$\int d^{x} = a^{x} \ln a$$

$$\int d^{x} = a^{x} \ln a$$

$$\int Sec x = Sec x tan x$$

$$\int c x x = - Cs c x cot x$$

$$\int Sin x = \frac{2 \tan 2}{1 + \tan 2}$$

$$CuSx = \frac{1 - \tan 2}{1 + \tan 2}$$

| 等价无穷心: | |
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| 2 arcsing ~ 1. | |
| $3 \text{ tmg} \sim 9$. | |
| Decretary ~ 1. | |
| B FCOSK~ ZX ~ ZSIN | |
| ONHA + ~ IX. | |
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| $\frac{\ln(\mu x)}{2} \sim \frac{4x}{\ln x}$ | |
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| (f) (fx) 1 ~ Us ← (Hx) f-1 ~ fg. ← e + ~ n m(fx) ~ n g. | |