

y' = x + tan x

1) set &=M du/dx·X+M=M+temM

=> tanu'du = & , dx

 $\int \frac{\partial SM}{\partial x} dx = \int \frac{1}{X} dx$ 

=)  $ln(simu) = lnx + c = he^{c}x$ 

smu = e CX

 $sin_{X}^{*} = c_{o} \cdot \chi$ 

= arcsmCX

y = X. arcsm Go.X

1312: (x'+ y')·dy - 2xydx =0

**邓次美寸** 

Set X = U dy = dx x + U

=) clu X+4= 2M

dy = du. X+U

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 $=) \frac{u-u^3}{1+u^2} = x \cdot \frac{du}{dx}$ 

 $\int \frac{1}{x} dx = \int \frac{1+u^2}{u-u^2} du$ 

 $\ln x + c = \int \frac{1+u^2}{u(1-u^2)} du$ 

 $\frac{1+u^2}{u(-u^2)} = \frac{3}{av} + \frac{Buv + C}{1-u^2}$ 

 $= \int \frac{1}{u} + \frac{2u}{1-u^2}$ 

= \lnu + (-\n (1-u2)) = \lm \frac{u}{1-u2}

 $\int_{X} \int_{X} C_{0} X = \lim_{N \to \infty} \int_{X} C_{0$ 

 $\frac{xy}{x^2-y^2} = 6x(-5) = 6x$ 

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|---|---|
| 多可能各类处理的  | 好圣  |
| $\frac{dy}{dx} = f(x)$  |   |
|   | (运动于3省)   |
| $\frac{dy}{dx} = \int \left( \frac{ax + by + c}{ax + by + c} \right)$ | 700   |
| 1 a b +0 That the 131   | 2 4 3 成战  |
| $\int \chi' = 3 + 12$ $y = \eta + 3 \rightarrow constant$             | $ \begin{cases} \alpha = 1 \\ \beta = 1 \end{cases} $ |
|   | see fax+bB+c=   |
| variable  | eg. { 3x + 24   |
| astaat by+  | BB+C (2x+3)   |
| 013+a,d+b,n-  | big + C, Fave act                                     |
|   | +13 邮解码   |
| - a3+bn a   | 1+6,7   |
|   |   |

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ex1. 
$$\frac{dy}{dx} = \frac{x-y+1}{x+y-3}$$

$$=) \leq (x = \beta + \alpha)$$

$$(y = \eta + \beta)$$

$$(y = \gamma + b)$$

$$\frac{d\eta}{d\beta} = \frac{3+\alpha-\eta-\beta+1}{3+\alpha+\eta+\beta-3}$$

$$=)\begin{cases} \alpha - \beta + 1 = 0 \\ \alpha + \beta - 3 = 0 \end{cases} \begin{cases} \alpha = 1 \\ \beta = 2 \end{cases}$$

$$\frac{dn}{ds} = \frac{3-n}{3+n} = \frac{1-3}{1+n} = \frac{3}{3}$$

$$\frac{du}{ds} = \frac{du}{ds} + u = \frac{du}{ds} + u$$

$$\frac{1+u}{u^2+2u-1} \stackrel{?}{=} \frac{du}{ds} = \frac{1-2u-u^2}{1+u}$$

$$\Rightarrow \frac{1+u}{1+u} \stackrel{?}{=} \frac{1}{s} \cdot ds$$

$$\frac{\ln(n^2+2M-1)}{=\ln 3^{-1}\cdot e^{2c}}$$

$$u^2 + 2u - 2 = 3^{-2}$$
. Co

$$u = \frac{\eta}{3} \Rightarrow \frac{\eta^2}{3^2} + 2(\frac{\eta}{3}) - 1 = 60.3^{-2}$$

$$\begin{cases} x = \frac{2}{3} + 1 & \Rightarrow \frac{5}{3} = x - 1 \\ y = \frac{9}{1} + 2 & \eta = y - 1 \end{cases}$$

Set 
$$\frac{a}{a_1} = \frac{b}{b_1} = \Lambda \Rightarrow a = \Lambda a_1, b = \Lambda b_2$$

$$\frac{dy}{dx} = f\left(\frac{ax + by + c}{ax + by + c}\right) = f\left(\frac{\lambda(ax + by) + c}{ax + by + c}\right)$$

$$\Rightarrow \frac{d^2}{dx} = a_1 + b_1 \cdot f\left(\frac{\sum z + c_1}{z + c_1}\right) \Rightarrow 3 = 3 = 3 = 3$$

$$= x_2, \quad \exists x = \underbrace{x - y + 4}_{2x - 2y + 5}$$

$$\Rightarrow \frac{dX}{dx} = \frac{x-y+s/3}{2x^2+s/3} = \frac{3}{2} + \frac{3}{2}$$

set 
$$\frac{21y}{Jx} = \frac{\Lambda(2x-2y)+4}{2x^2y+5}$$

$$\frac{2=1\times-2\gamma}{dx}, \frac{d^{\frac{2}{3}}}{dx} = 2-2\rho \frac{d^{\frac{2}{3}}}{dx}$$

$$\frac{d^{\frac{2}{3}}}{dx} = 2-2\rho \frac{d^{\frac{2}{3}}}{dx} = \frac{2+2}{2+5}$$

$$\int dx = \frac{2+2}{2+2} \cdot dz = \left(\frac{3}{2+2}\right) + 1 \cdot dz$$

$$X = \frac{1}{2} + \frac{3}{n} \left( \frac{1}{2} + \frac{1}{2} \right) + C$$

$$X - 2y + 3 m (x - y + 1) = C$$

$$e^{3(x-y+1)^{3}} = 2y-x+c$$
  
 $(x-y+1)^{3} = e^{2y-x}.c_{0}$