最基本经 (ca			
CLX 10g a	X		
Sinx.	.cosx, tanx cotx, sec)	L. CSCX	
arcs	sinx , arc cosx, arc	ctarx arc cotx	
构成: \ 复合	)		
(必数由最好	经从构成的里域本	初成)	
二、求异工具			
(一)基本公立			
(())=0	)		
	.a-I		
$2 (x^{\alpha})' = \alpha x$	<u> </u>		
2 v 1	× /.		
$3.(a^{x})'=0$ $(e^{x})'=e^{x}$	i Iha 2×		
4. (logax) =	: X Ina		
$(\ln x)' = 1$	1 X		

$$\theta$$
 ((s(x)) = - (s(x))

1 Ulia

$$4 - \frac{n}{\sqrt{2}} = \frac{n\sqrt{2}}{\sqrt{2}}$$

$$0 (nvw)' = nvw + uvw' + uvw'$$

$$i \pm i = i + (0) = 0$$

$$\frac{1}{2} = \frac{1}{2} \frac{$$

## (三) 复合:

$$\frac{dy}{dx} = \frac{dy}{dy} \cdot \frac{du}{dx} = f(u) \cdot \varphi'(x)$$

$$L: p'(x) = \frac{1}{2x^{2}} \frac{\partial h}{\partial x} + 0 \Rightarrow 2u = 0(2x)$$

$$=+'(\varphi \times)\cdot\varphi'(x)$$

$$= 3 \ln^2(Hx) \cdot \frac{3x}{Hx^2} + (3se^{2x} \cdot e^{2x})^2$$

## 四) 反函数桴

一个函数有反函数、酰要单调

例,花y=hcx+mx) 反歧数

 $\Rightarrow \frac{1}{2} \times \frac{e^{x} - e^{y}}{2} \times \frac{e^{y} - e^{y}}{2} \times \frac{e^{y}$ 

Th、y=fxx可子、且fixx =0 x=g(x)为反函数 告价我们这位数据的的!

$$g'(y) = \frac{1}{2} \frac{\partial x}{\partial y} = \frac{1}{2} \frac{\partial x}{\partial y}$$