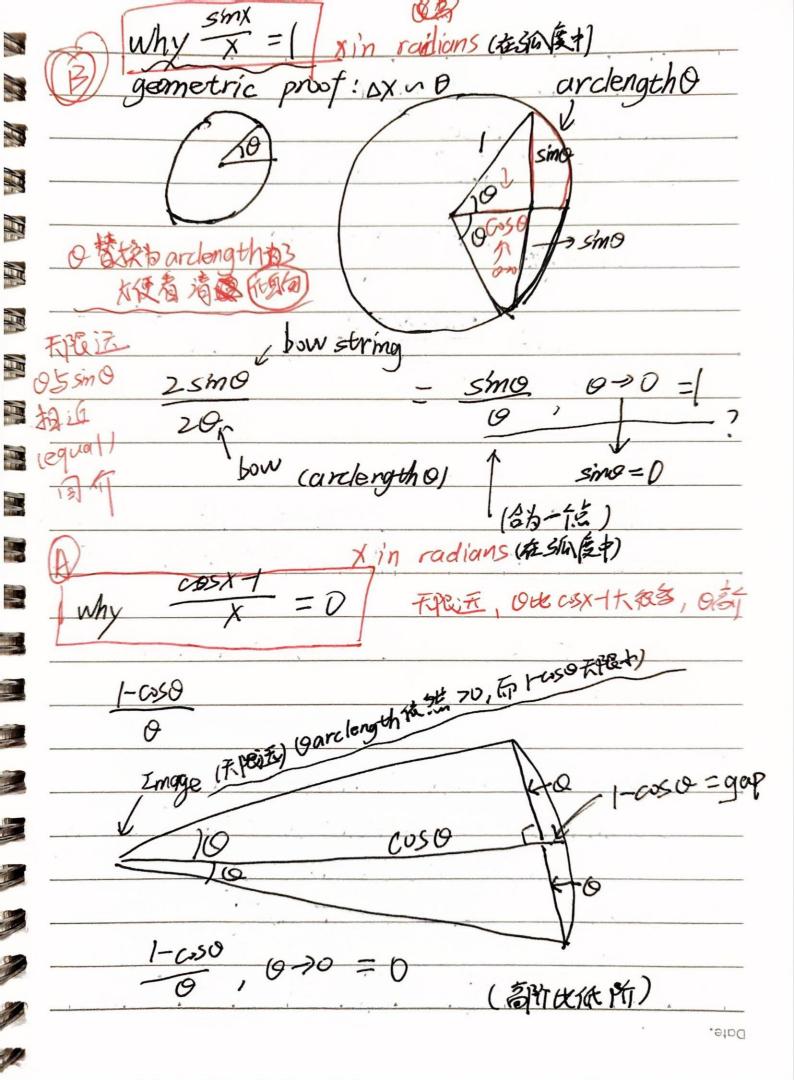
Lee3	smooth = since sb + cosasinb
Devi	CUSCATE) = CISCASSID 7 SMOUSIND
Derivative Form	
Derivative Formulas	
specific fix) (tix = xn, x)	
general $cu+xy'=v'+x'$	
ccu)'=cu' constant	
d simx dx COSX	
-dx	
SMXOSOX + OSX.SM AX - SMX	
$= \frac{\sin(x+0x)-\sin x}{\exp(x+0x)-\sin x} = \frac{\sin(x+0x)-\sin x}{\exp(x+0x)}$	
CAX	
= sinx (COSOX -) + sinsx cosx. Smlx	
$\Delta x \neq 0 = sm x \cdot U + cs x \cdot 1$	
$= c \approx \chi$	
d smx = xosx speci	fic famula dismx = cusx
dx	
CIS(X+DX)-CISX - CISXOFDX - SIM XSMAX - CISX	
$= csx\left(\frac{csax}{ax}\right) - sinx\left(\frac{sin}{ax}\right)$	
$= -5 \text{m} \times$	
dx CSX = Sm X Sp	eelfic formula



General rule Formula

$$(uv)' = u'v + uv'$$

$$(u|v)' = (u'v - uv') v \neq 0$$

$$(u+v)'(x) = \lim_{\Delta x \to 0} \frac{(u+v)(x+\Delta x) - (u+v)(x)}{\Delta x}$$

$$= \lim_{\Delta x \to 0} \frac{u(x+\Delta x) - v(x)}{\Delta x} + \lim_{\Delta x \to 0} \frac{v(x+\Delta x) - v(x)}{\Delta x}$$

$$= u' + v'$$