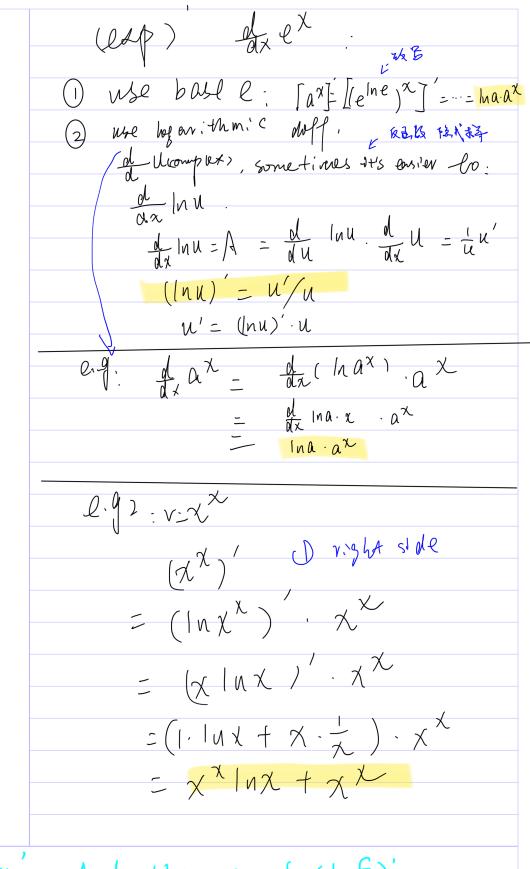
{ (ldp) $(a^{\chi})' = M(a) a^{\chi}$ x=0, $(a^{2})'=M(a)$ is we defined that (ex)'= ex. (2) when $a \neq \ell$, $a = (e \cdot \frac{a}{e})^{\chi} = e^{\chi} \cdot (e^{\chi})^{\chi}$ $= (e \cdot \frac{a}{e})^{\chi} = e^{\chi} \cdot (e^{\chi})^{\chi}$ 50, (ax) = (ect) = ecx. c = logel. e = logea. ax $\times a=0$: $0^{\alpha}=0$. Simple 4 < 0: $[(-a)^{x}]' = \log_{e}(-a) \cdot (-a)^{x}$ $furtherefore e.g.(-1)^{x}$ $(\alpha^{\chi})^{\prime} = \ln \alpha \cdot \alpha^{\chi}$

My trial on log



He solves Zup'. And the use of (Inf)'; $U' \cdot \frac{1}{U} = (1nU)$

DOV INV = INX Inv= xlnx v(x)=? (InV)': (x(nx)' - V'= Inx+ 1 V = (Inx+1) V = (Inx +1) - xx l. 9. 3: 1:m (1+ /n)" If me find on him = a, then we know has Wy / [(1+ 1/2))] generally In (X+DX) - In X iti's I: In (X). t'= dx lnx |x=1=x |= | (f' at x=1). 7: rally, IN] = f' = 1 17 = e'=e Now me defined e numerical appar e=(1+ to)/00

more usage on u': (lnu)'.and Mart is e.