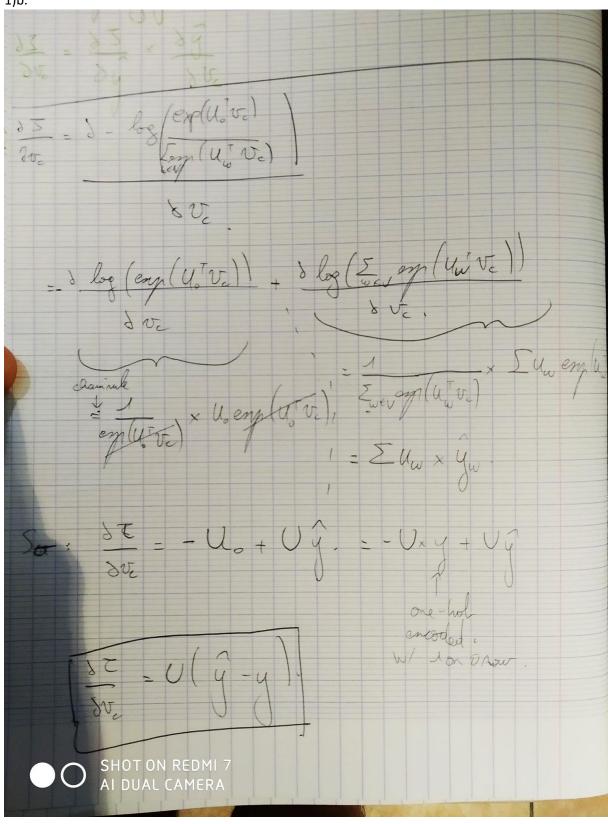
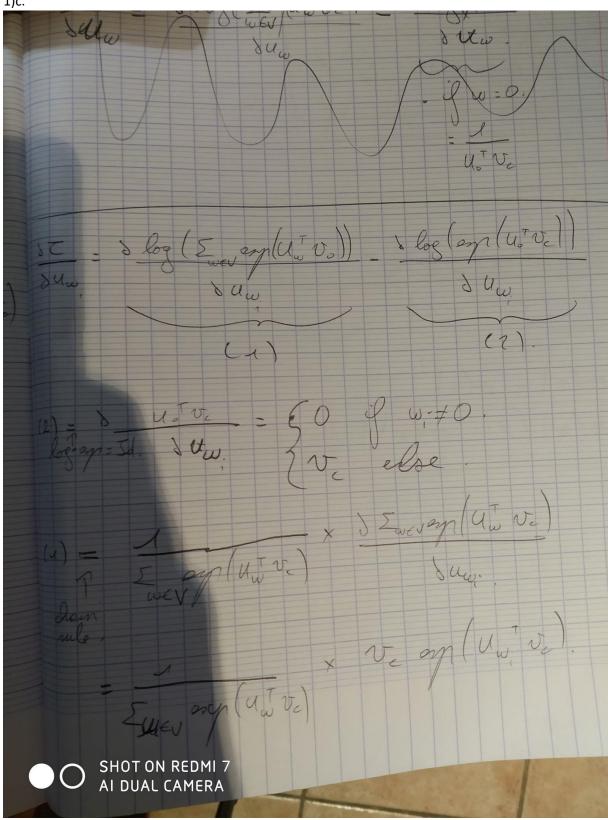
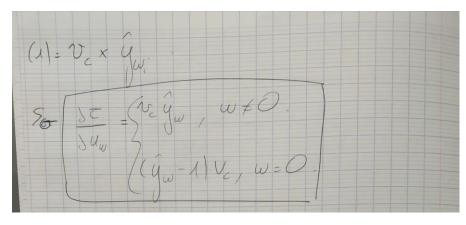
1)a. Easy one. Just observe that $y_0 = 1$ and $y_w = 0$ for w = 0.

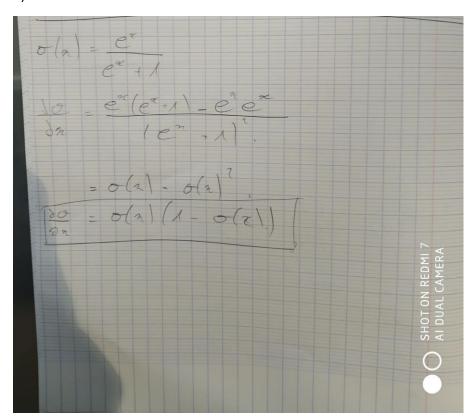
1)b.



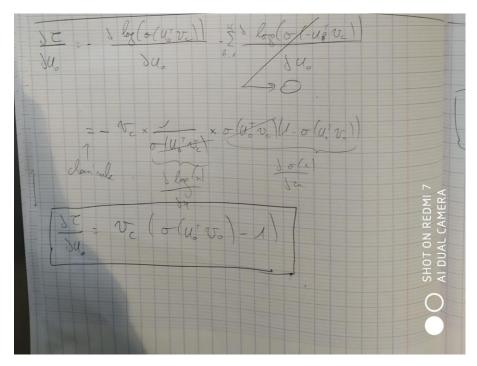




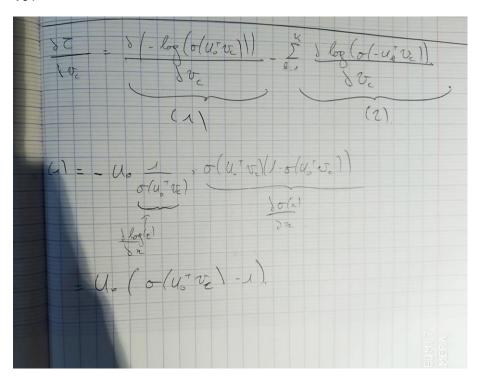
1)d.

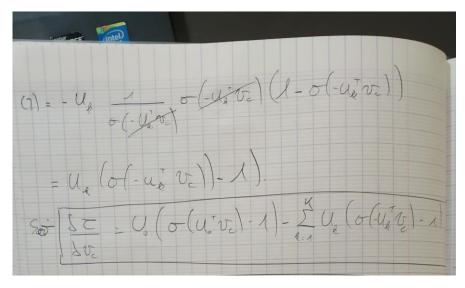


1)e. u0:

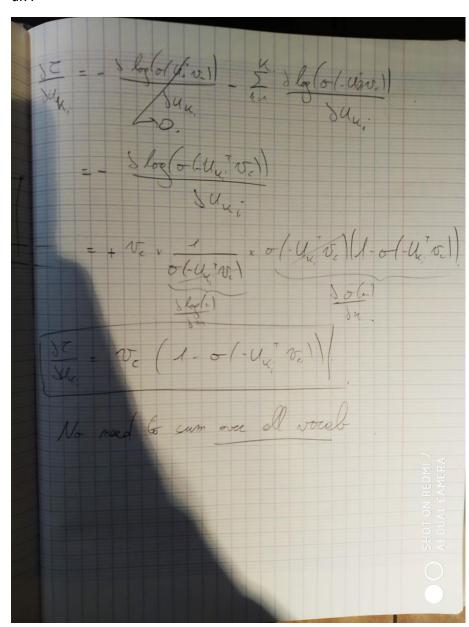


Vc:





uK:



1)f. Easy no calculus :

