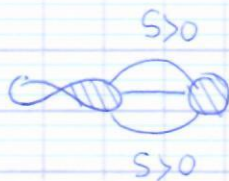


T.D. Q.2:

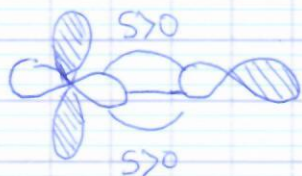
Exercice 1:



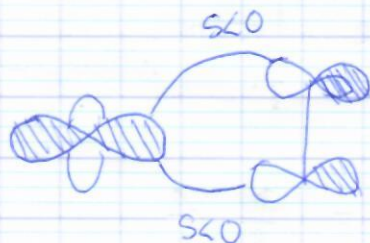
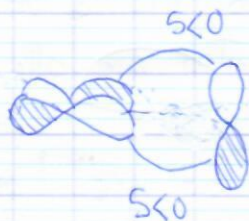
$S_{tot} = 0$ NON



$S_{tot} \neq 0$ donc oui
 σ liante



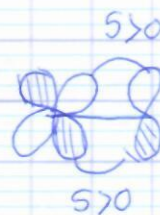
$S_{tot} \neq 0$ donc oui
 π



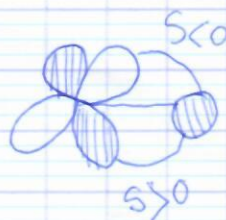
donc $S_{tot} \neq 0$
antiliante σ



$S_{tot} \neq 0$ donc oui
 π liante



$S_{tot} \neq 0$ donc oui
 π liante



$S_{tot} = 0$
donc NON

impossible car orthogonale. tout se
compense donc $S_{tot} = 0$