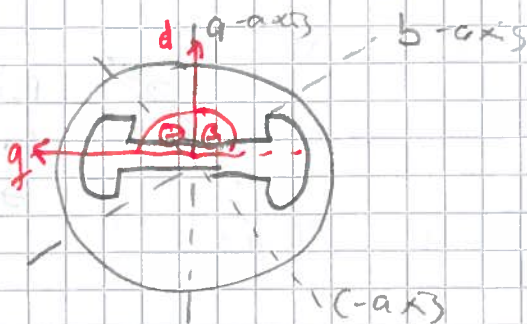


④

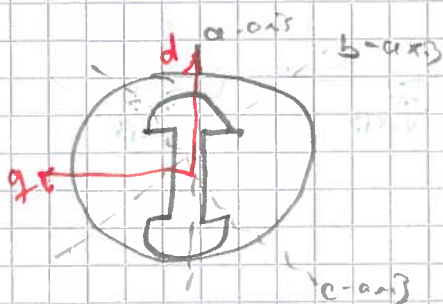
Max. value if  $M_{bscs} = -\frac{1}{2}L_1 - L_2$

$\Rightarrow$  obtained if  $\Theta = -90^\circ$  and  $\Theta = 90^\circ$



Min. value if  $M_{bscs} = -\frac{1}{2}L_1 + L_2$

$\Rightarrow$  obtained if  $\Theta = 0^\circ$  and  $\Theta = 180^\circ$



3) see "20 Jan 12" problem 2, ex. 6 !

4.)

No, because the zero component of the current is only related to the leakage flux which will not affect the torque !