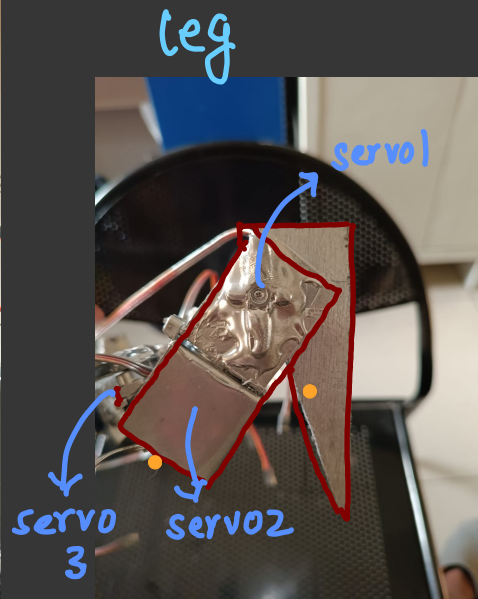
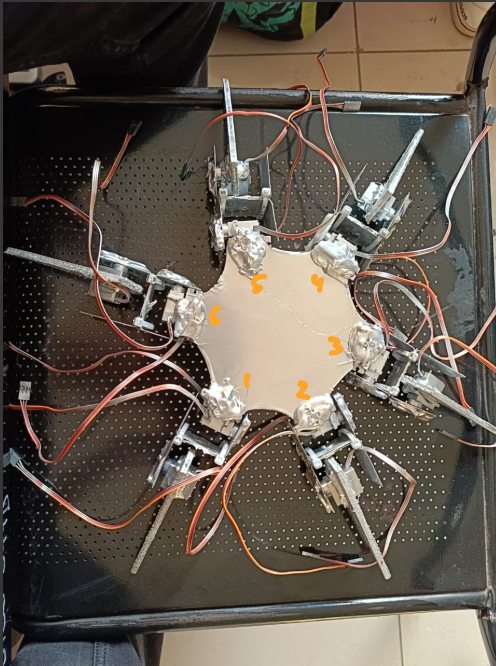
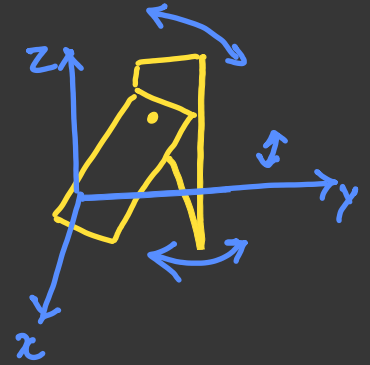


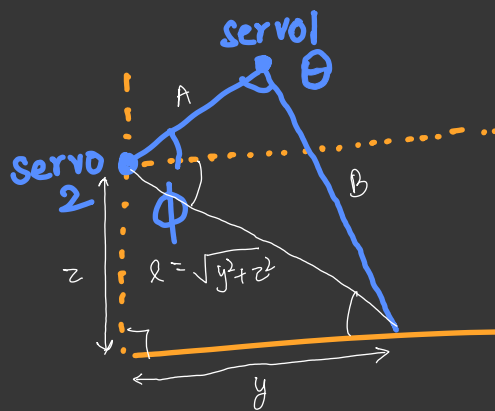
# Hexapod



3 degree of freedom



## LEG KINEMATICS



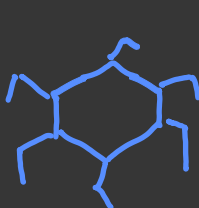
A and B  
are constants  
(dimensions of leg)

$$\theta = \cos^{-1} \left( \frac{-l^2 + A^2 + B^2}{2AB} \right)$$

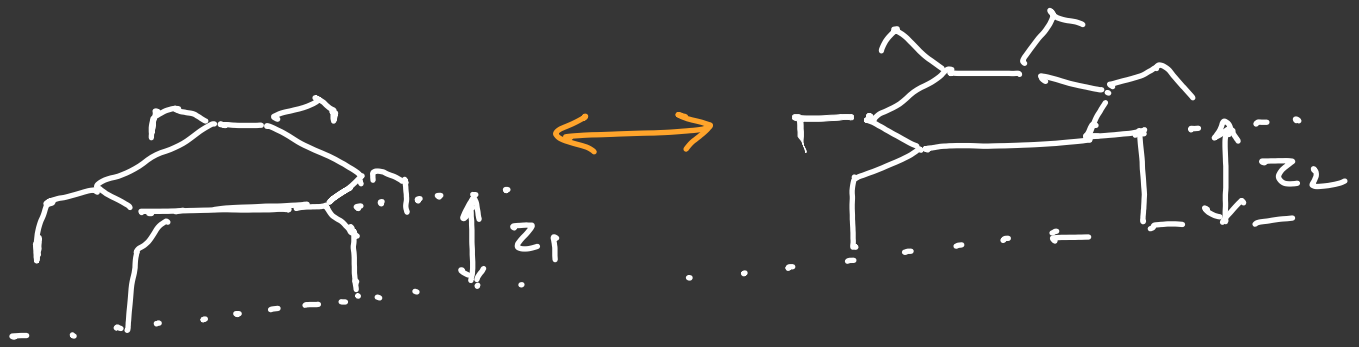
$$\phi = \cos^{-1} \left( \frac{-B^2 + A^2 + l^2}{2Al} \right) - \tan^{-1} \left( \frac{z}{y} \right)$$



make hexapod sit and stand.



Basically  $x$  and  $y$  are constant  
we have to vary  $z$  and the work  
will be done.



So now lets jump to coding...