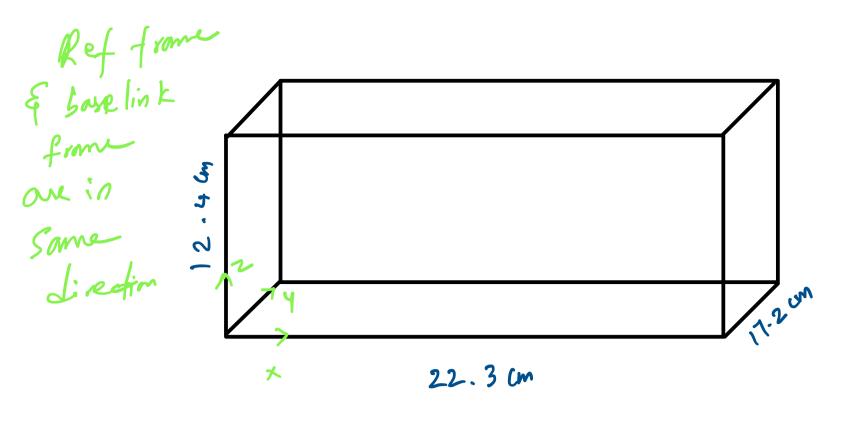


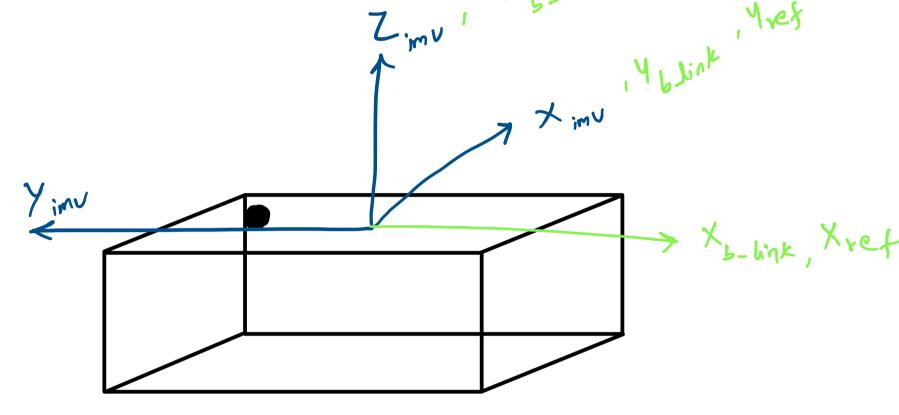
Tuesday, June 23, 2020



Robot Center =
$$\left(\frac{22.3}{2}, \frac{17.2}{2}, \frac{12.4}{2}\right)$$

17.2

-7.1



Rotation in Z

$$R_{2}(\theta) = \begin{bmatrix} (\theta & -5\theta & 0) \\ 5\theta & c\theta & 0 \\ 0 & 0 & 1 \end{bmatrix} = \begin{bmatrix} 0 & -(-1) & 0 \\ -1 & 0 & 0 \\ 0 & 0 & 1 \end{bmatrix} \Rightarrow \begin{bmatrix} 0 & -1 & 0 \\ 1 & 0 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

$$C = \begin{bmatrix} 0 & 1 & 0 \\ -1 & 0 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

$$Q = \begin{bmatrix} 0 & 0 & -1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

Proviously
$$+90$$
 byt b_{-lat}

NON -90 byt b_{-lat}

R(9) = $\begin{bmatrix} c\theta & -s\theta & 0 \\ s\theta & c\theta & 0 \\ 0 & 0 & 1 \end{bmatrix}$

= $\begin{bmatrix} -1 & 0 & 0 \\ 0 & -1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$