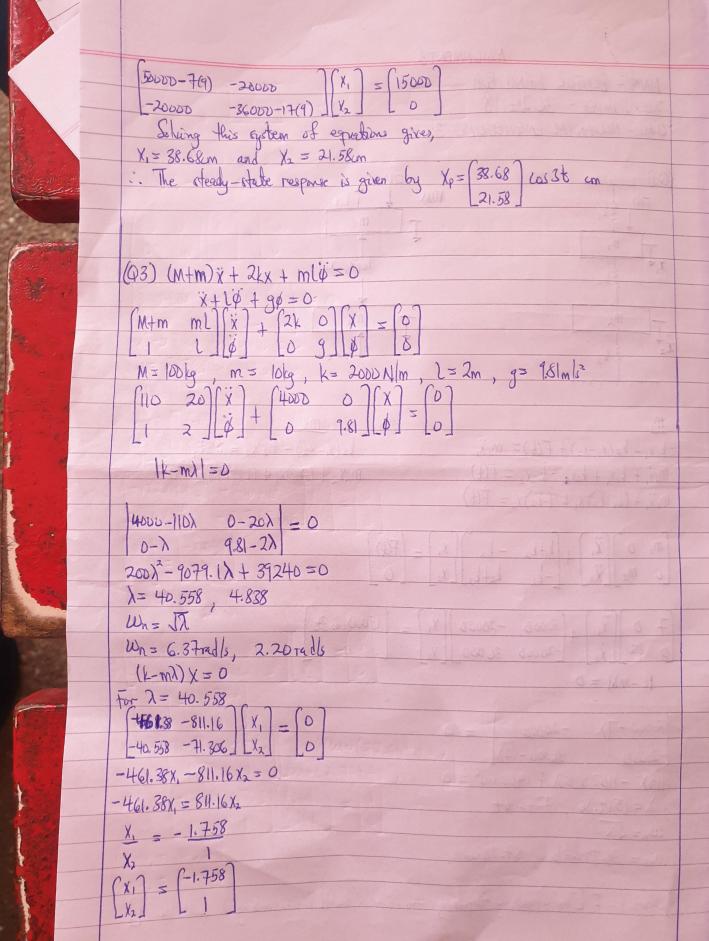
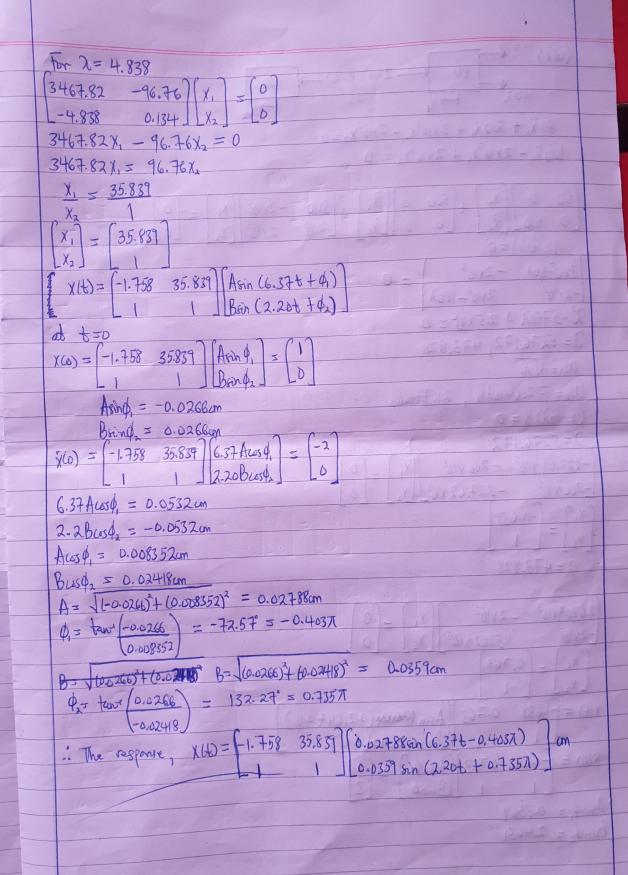
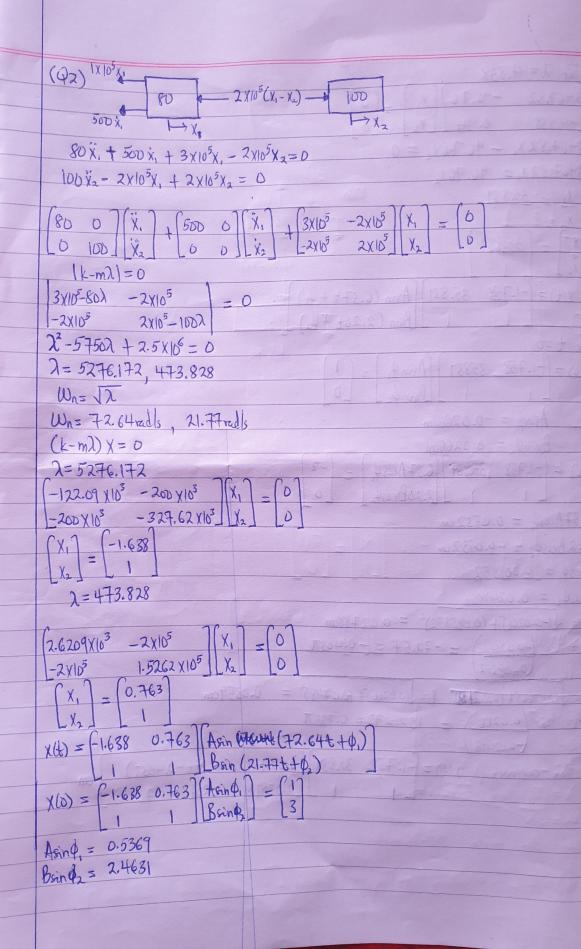
ASSIGNMENT 3







$$\dot{\chi}(b) = \begin{bmatrix} -1.688 & 0.763 \end{bmatrix} \begin{bmatrix} 72.64 \text{Acos} (72.64b + 0.) \\ 1 & 1 \end{bmatrix} \begin{bmatrix} 21.77 \text{Bios} (21.77b + 0.) \end{bmatrix}$$
 $\dot{\chi}(0) = \begin{bmatrix} -1.638 & 0.763 \end{bmatrix} \begin{bmatrix} 72.64 \text{Acos} 0.763 \end{bmatrix} \begin{bmatrix} 72.64 \text{Acos}$ 

$$A = \sqrt{0.5369^2 + (-0.004375)^2} = 0.5369 cm$$

$$\phi_2 = \frac{1}{100} \left( \frac{2.4633}{-0.0313} \right) = \pi_{1/2}$$

: The response, 
$$\chi(t) = \begin{bmatrix} -1.638 & 0.763 \end{bmatrix} \begin{bmatrix} 0.5369 & (72.64 & +712) \end{bmatrix}$$
 cm
$$\begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix} \begin{bmatrix} 2.4633 & (21.77 & +712) \end{bmatrix}$$