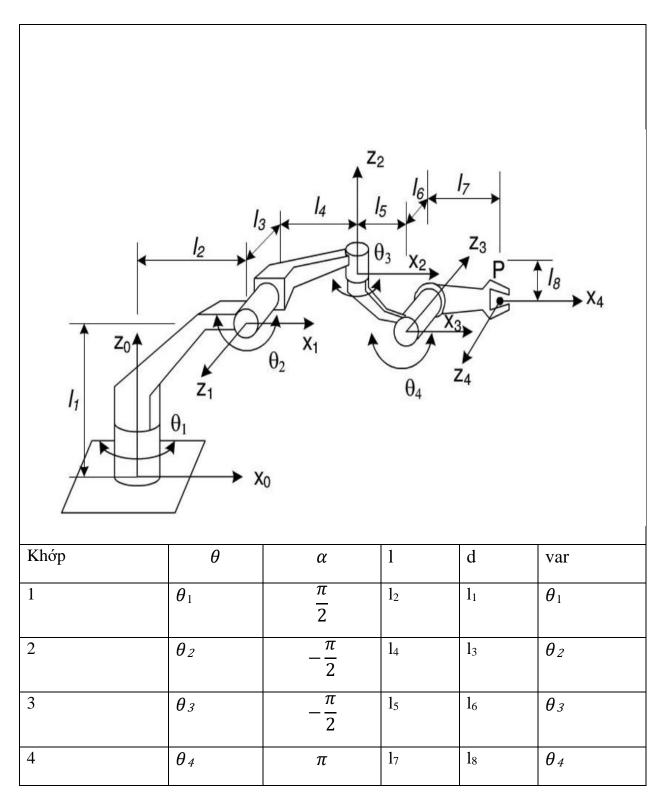
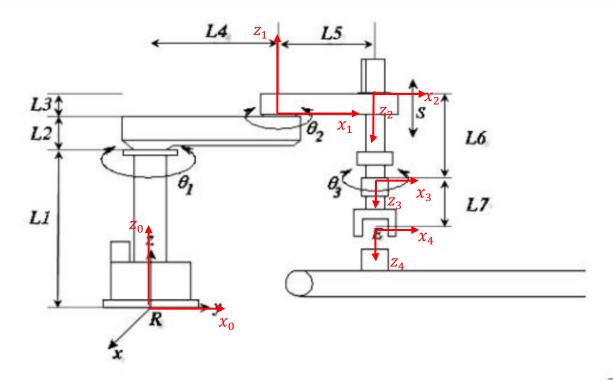
## HOMEWORK 4

## Bài 1:

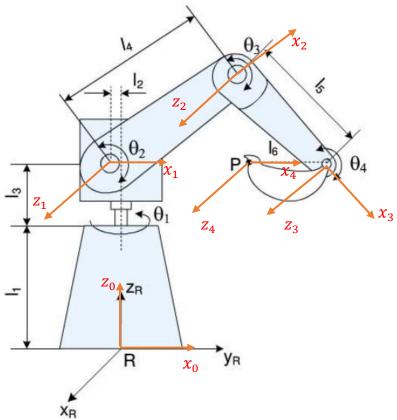


Bài 2:

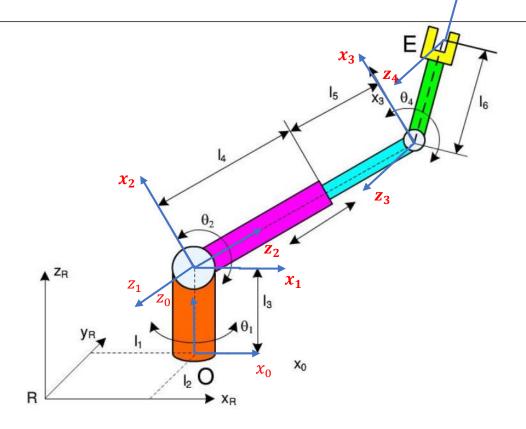


Khớp	$\theta$	α	1	d	var
1	$\theta_1$	0	14	1 <sub>1</sub> + 1 <sub>2</sub>	$\theta_1$
2	$\theta_2$	π	15	13	$\theta_2$
3	0	0	0	l <sub>6</sub> +s	0
4	$ heta_{4}$	0	0	1 <sub>7</sub>	$\theta_{4}$

Bài 3:

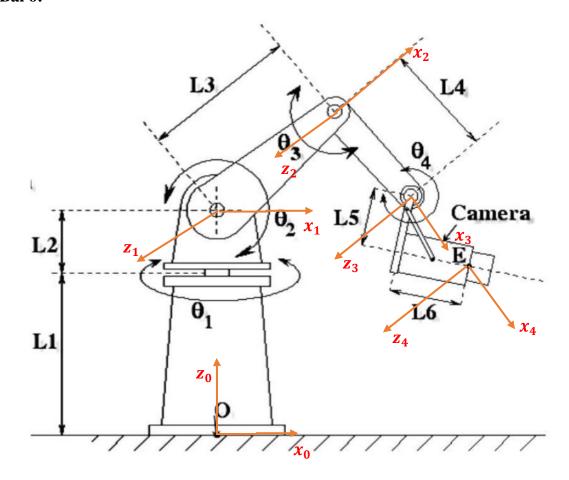


OR .							
Khớp	heta	α	1	d	var		
1	$\theta_1$	$\frac{\pi}{2}$	12	1 <sub>1</sub> + 1 <sub>3</sub>	$\theta_1$		
2	$\theta_{2}$	0	14	0	$\theta_{2}$		
3	$\theta_3$	0	15	0	$\theta_3$		
4	heta 4	0	16	0	$ heta_{4}$		



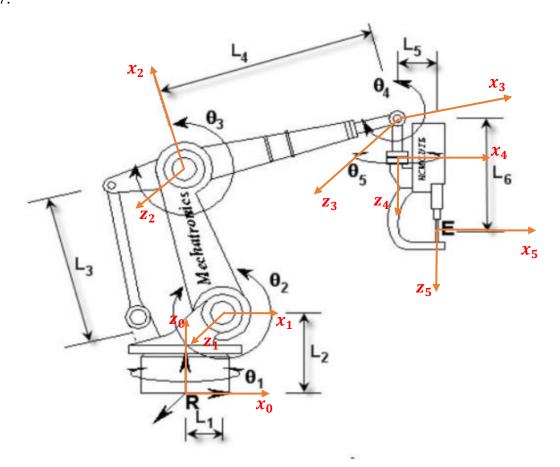
Khớp	$\theta$	α	1	d	var
1	$\theta_1$	$\frac{\pi}{2}$	0	13	$\theta_1$
2	$\theta_2 + \frac{\pi}{2}$	$\frac{\pi}{2}$	0	0	$\theta_{2}$
3	0	$\frac{-\pi}{2}$	0	14+ 15	l <sub>5</sub>
4	$ heta_{4}$	0	16	0	θ 4

Bài 6:



Khớp	θ	α	1	d	var
1	$\theta_1$	$\frac{\pi}{2}$	0	$1_1 + 1_2$	$\theta_1$
2	$\theta_2$	0	13	0	$\theta_2$
3	$\theta_3$	0	14	0	$\theta_3$
4	θ4	0	$\sqrt{l_5 + l_6}$	0	θ 4

Bài 7:



Khớp	θ	α	1	d	var
1	$\theta_1$	$\frac{\pi}{2}$	11	12	$\theta_1$
2	$\theta_2$	0	13	0	$\theta_2$
3	$\theta_3$	0	14	0	$\theta_3$
4	θ4	$\frac{\pi}{2}$	0	0	θ4
5	$ heta_5$	0	15	16	$ heta_5$