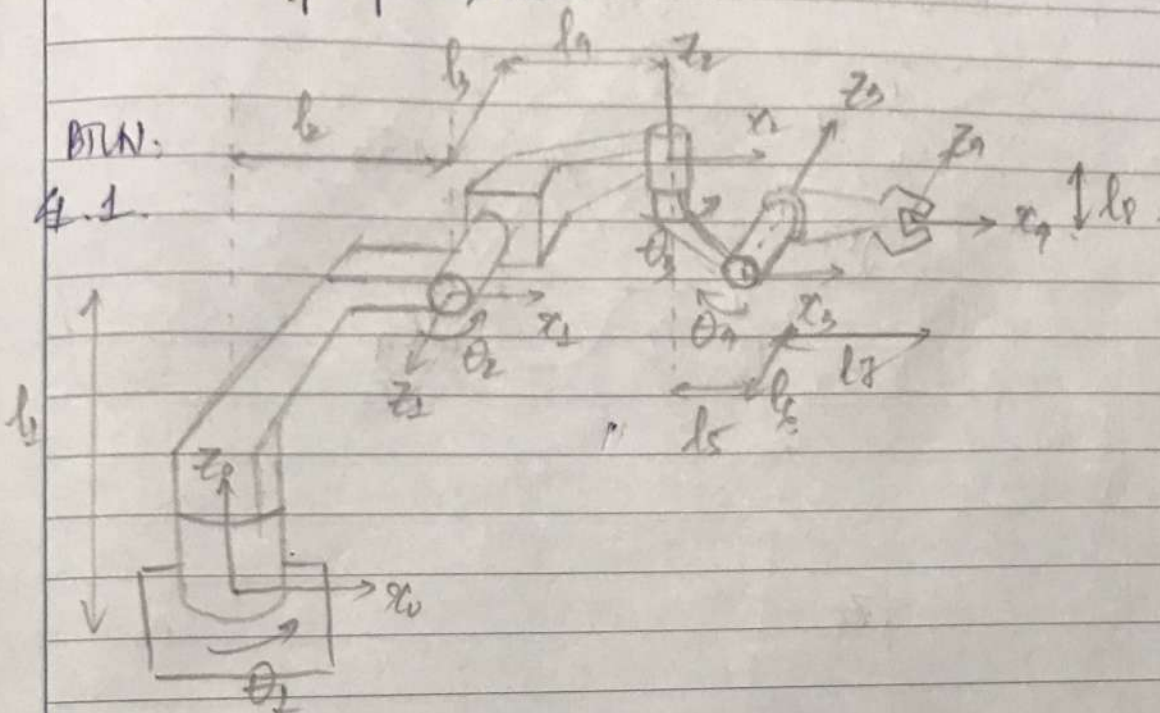


Điệp | Chai Hoàn - 20146090  
 Bài tập kỹ thuật Robot

ĐTN:

4.1.



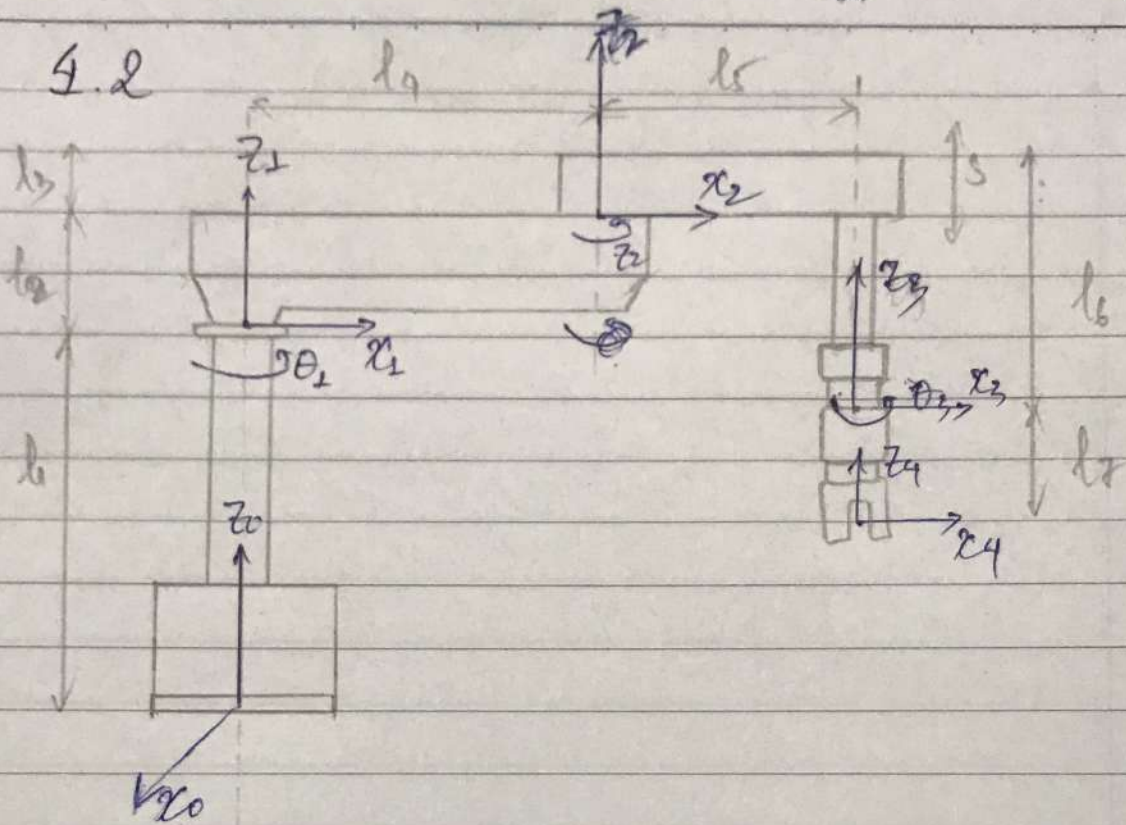
#	$\theta$	$l$	$\alpha$	$d$	var
1	$\theta_1$	$l_2$	$\pi/2$	$l_1$	$\theta_1$
2	$\theta_2$	$l_4$	$-\pi/2$	$l_3$	$\theta_2$
3	$\theta_3$	$l_5$	$-\pi/2$	$l_8$	$\theta_3$
4	$\theta_4$	$l_7$	0	$l_6$	$\theta_4$



Thứ  
Ngày

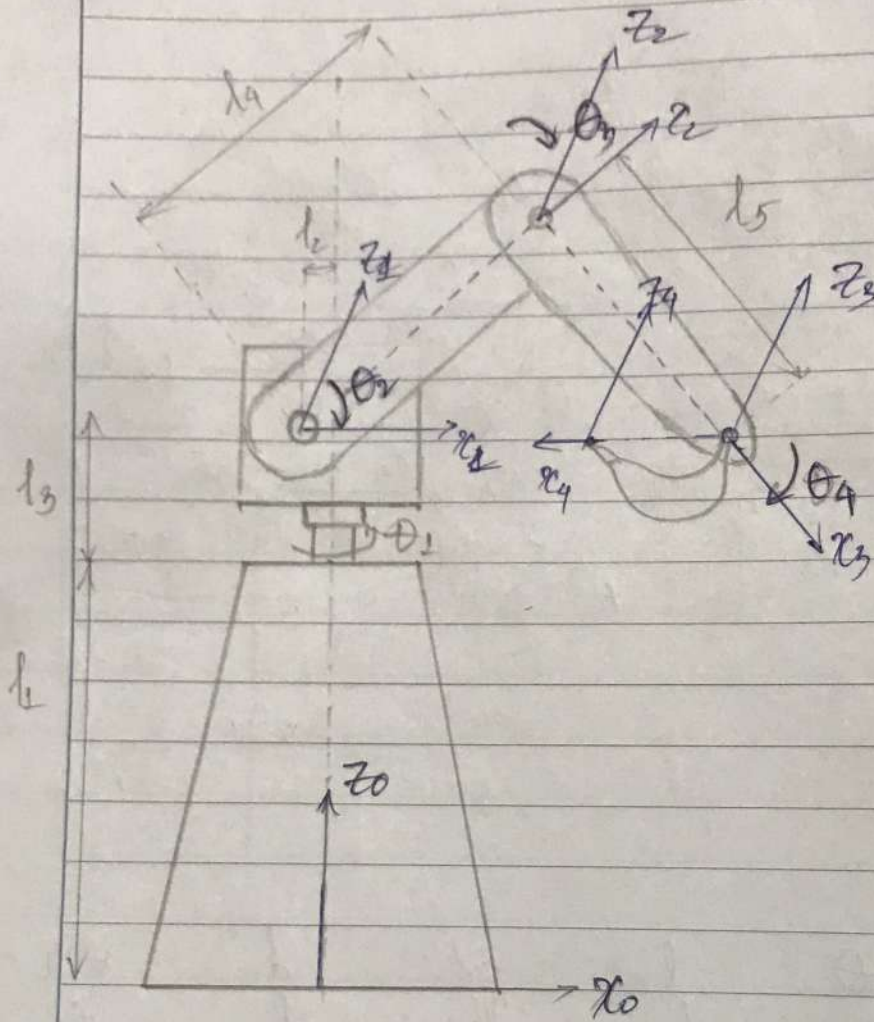
No.

4.2



#	$\theta$	$l$	$\alpha$	$d$	var
1	$\theta_1$	0	0	$l_1$	$\theta_1$
2	$\theta_2$	$l_2$	0	$l_2$	$\theta_2$
3	0	$l_5$	$\pi$	$l_6 + l_3 - l_5$	S
4	$\theta_3$	0	0	$l_7$	$\theta_3$

4.3.



#	$\theta$	$l$	$\alpha$	$d$	var
1	$\theta_1$	$l_2$	$\pi/2$	$l_1 + l_3$	$\theta_1$
2	$\theta_2$	$l_4$	0	0	$\theta_2$
3	$\theta_3$	$l_5$	0	0	$\theta_3$
4	$\theta_4$	$l_6$	0	0	$\theta_4$

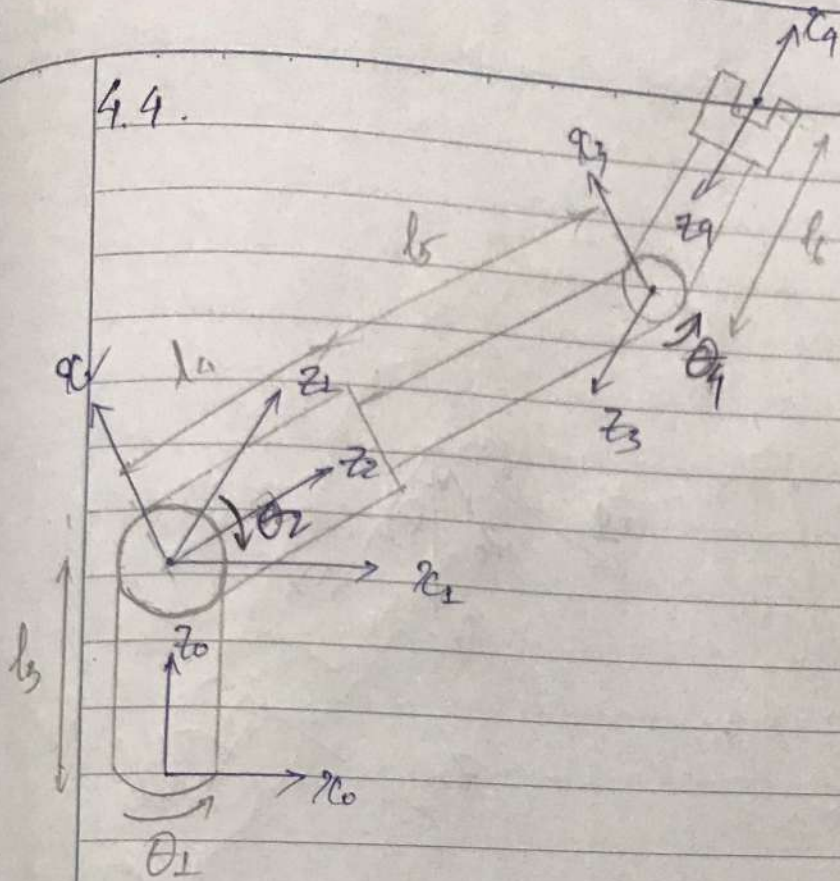


4.4.

Thứ  
Ngày

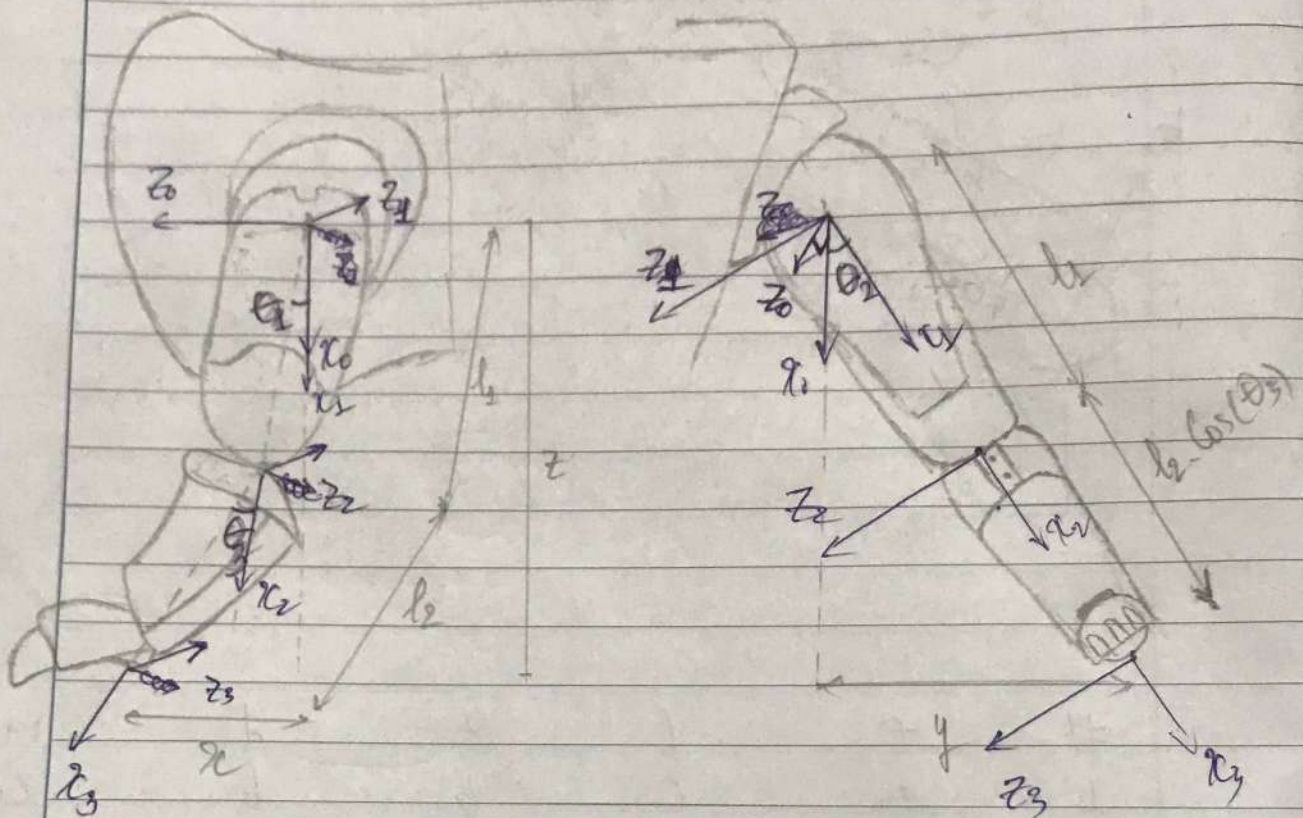
No.

ls thay đổi



#	$\theta$	$l$	$\alpha$	$d$	var
1	$\theta_1$	0	$-\pi/2$	$l_3$	$\theta_1$
2	$\theta_2 + \frac{\pi}{2}$	0	$-\pi/2$	0	$\theta_2$
3	0	0	$-\pi/2$	$l_4 + l_5$	$l_5$
4	$\theta_4$	$l_6$	0	0	$\theta_4$

4.5



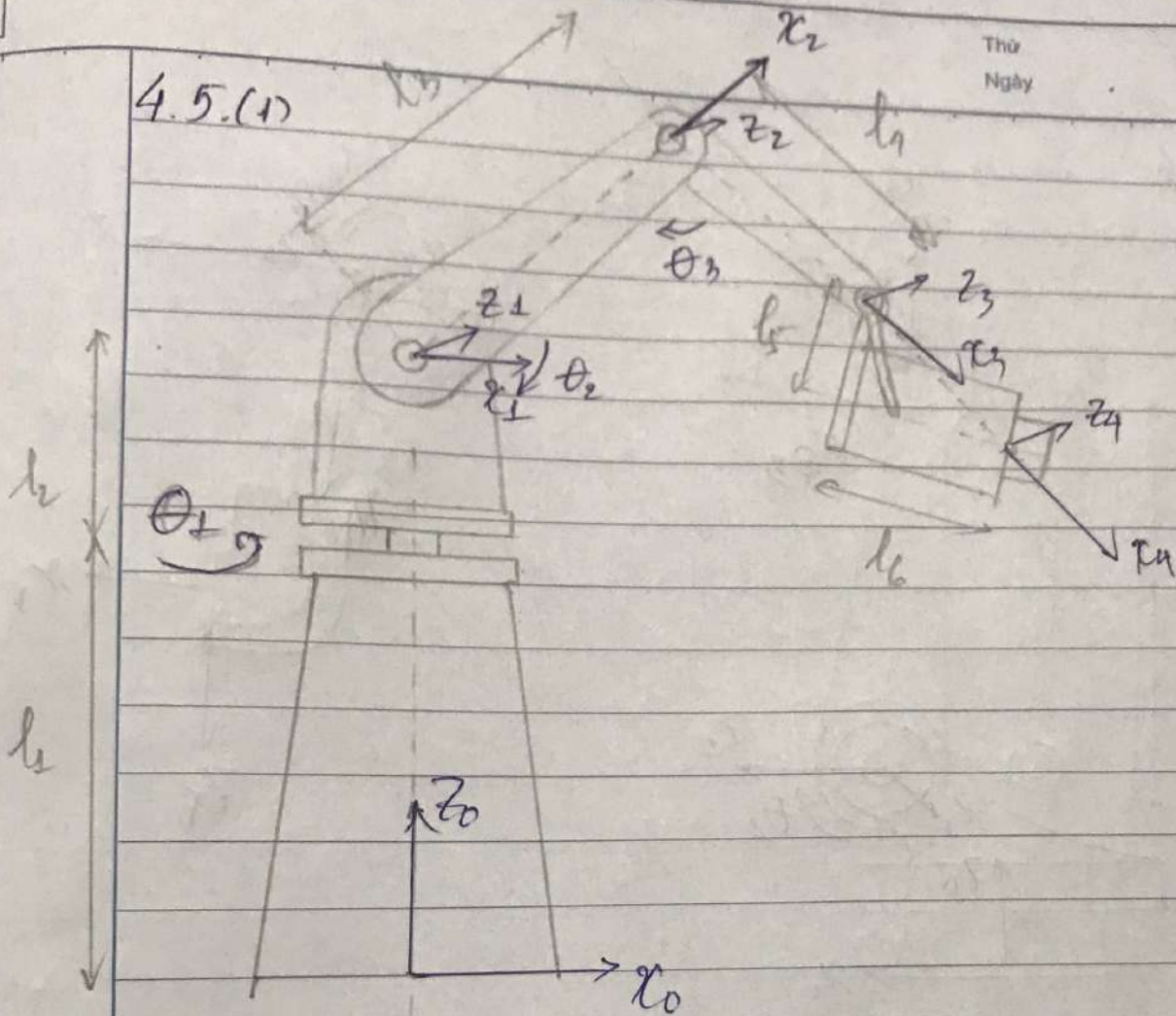
#	$\theta$	$l$	$\alpha$	$d$	var
1	$\theta_2$	0	$\pi/2$	0	$\theta_2$
2	$\theta_1$	$l_1$	0	0	$\theta_1$
3	$\theta_3$	$l_2$	0	0	$\theta_3$



4.5.(1)

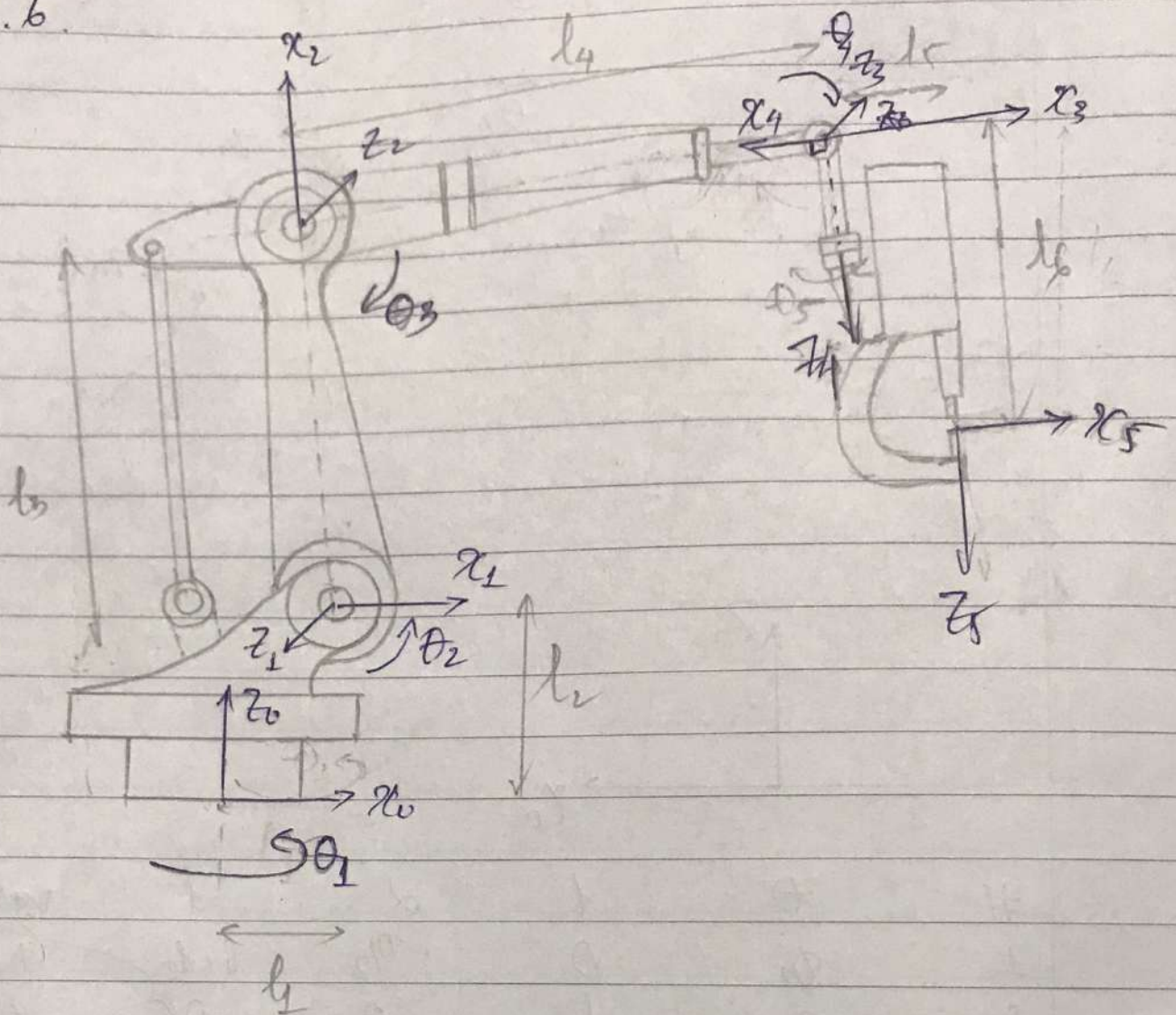
Thứ  
Ngày

No.



#	$\theta$	$l$	$\alpha$	$d$	var
1	$\theta_1$	0	$-\pi/2$	$h_1+h_2$	$\theta_1$
2	$\theta_2$	$l_3$	0	0	$\theta_2$
3	$\theta_3$	$l_4$	0	0	$\theta_3$
4	$\theta_4$	$\sqrt{l_5^2+l_6^2}$	0	0	$\theta_4$

4.6



#	$\theta$	$l$	$\angle$	$d$	var
1	$\theta_1$	$l_1$	$\pi/2$	$l_2$	$\theta_1$
2	$\frac{\pi}{2} + \theta_2$	$l_3$	$\pi$	0	$\theta_2$
3	$\theta_3$	$l_4$	0	0	$\theta_3$
4	$\theta_4$	0	$-\pi/2$	0	$\theta_4$
5	$\theta_5$	$l_5$	0	$l_6$	$\theta_5$