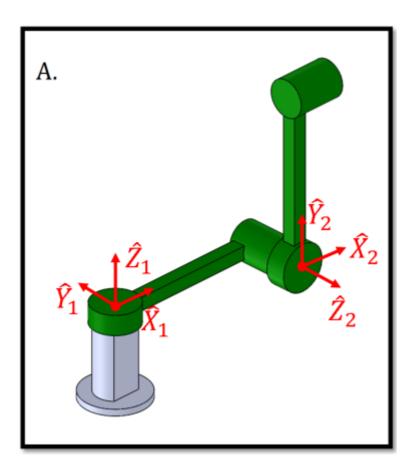
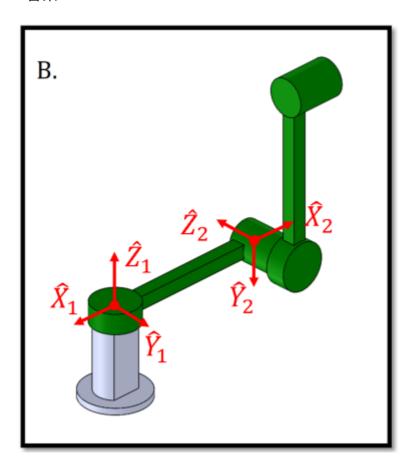
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1分

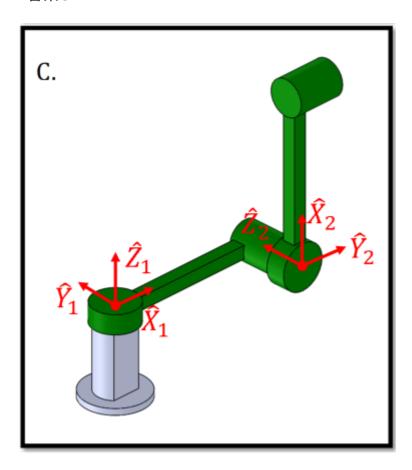
答案A



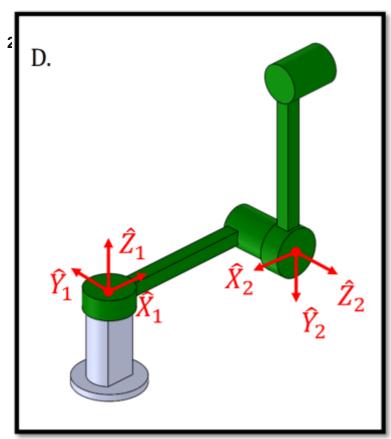
答案B



答案C

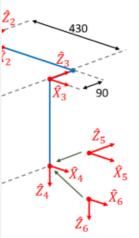


答案D



姿態定義成各軸均是 0° ame {0} - Frame {6}原 3參數。

答案需四捨五入至整



。DH 表

i	α_{i-1} (deg)	a _{i-1} (mm)	<i>d_i</i> (mm)	θ_i
1	0	0	0	θ_1
2	-90	0	220	θ_2
3	Α	В	С	θ_3
4				θ_4
5	D	Е	F	θ_5
6				θ_6

0//430//90//90//0//0

3. 承接第2題參見下圖,機械手臂六軸的角度分別為: $\theta_1 = 15 \degree \theta_2 = -40 \degree \theta_3 = -50 \degree \theta_4 = 30 \degree \theta_5 = 70 \degree \theta_6 = 25 \degree$

1分

1分

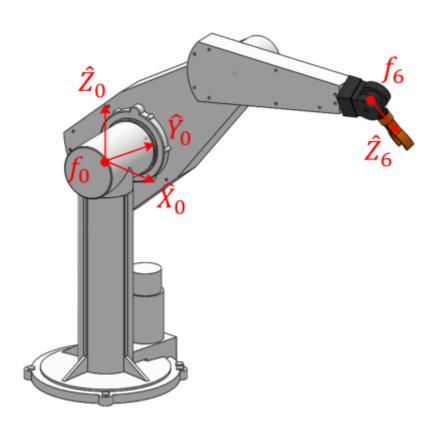
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Frame {2} 相對於 Frame {1}的transformation matrix,i.e. 1_2T 為

[0.77	0.64	0	A
0	0	1	$A \cap B \cap 0$
C	D	0	
L_0	0	0	1 -

請以//區隔,依序填寫A-D的答案,(答案需四捨五入至兩個有效數字)

(例如答案為A = 0, B = -0.123, C = 456, D = 78, 請填寫 0//-0.12//460//78)



0//220//0.64//-0.77

4. 承接第3題, Frame {4}的原點相對於Frame {0}的座標是?(i.e.

1分

$${}^{0}P_{4\,org} = \begin{bmatrix} A \\ B \\ C \end{bmatrix}$$
)

請以//區隔,依序填寫A-C的答案,(答案需四捨五入至兩個有效數字)

700//320//280

5. Frame {6}相對於Frame {0}之transformation matrix是

$${}_{6}^{0}T = \begin{bmatrix} 0.96 & -0.2 & 0.21 & A \\ B & -0.79 & C & D \\ 0.057 & -0.58 & -0.81 & 280 \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

請以//區隔,依序填寫A-D的答案,(答案需四捨五入至兩個有效數字)

700//-0.28//0.54//320