

translated by (3,2,0) T (A.) = Mot a linear franformention som we need 2 dy 0 0 T (Am) = (1)(1)+(0)(2)+(0)(3)+(3)(1) 0 0 (0)(1)+(1)(2)+(0)(3)+(2)(1) 2 0 0 2 3 (0)(1) +(0)(2) + (1)(3)+(0)(3) 0 3 0 40(1)+(0)(2)+(0)(3)+(1)(1) 0 Translation Matrix. T(AH)= 4

Qu: B(5,7,8), project outs my plane, then x-ans Him
$T_1: i, j$ remain: Same $k = \begin{bmatrix} 0 \\ 0 \end{bmatrix} \rightarrow \begin{bmatrix} 0 \\ 0 \end{bmatrix}$
$ \begin{array}{c c} T_2: i, unchanged \\ j:  o  \rightarrow  o  \\  o  &  o  \end{array} $
B': (5,0,0)
Transformation Matrix: 1 0 0 0
0 0 0 0

<b>b</b>	Date:	2,3.4	) .	First	tran	sla	ted	Бу		1,0,0)	the	rot	ateo	/ <sub>1</sub>	0
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	Final	Coord	nates	; (	-3,	3,	,-4	)					-		
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Q6: D(1,-3,2), reflect across yz-plane D10,0,0) Q7: Rotated 45° around . x-axis then translated by (5,2,0) After votating at the origin, the model remains the same place so no change. D': (5,2,0) final coordinates

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Q10: (-10,0,0)	) rotated	30° a	bout the	zanis, translateo	1
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to (10,5,0)

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O11: H(1,1,1), rotate 90° around graxis, then translates by (2,3,1)

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10. 5(5,5,5), translated by (-3, -2, -1), then rotated 10.	graf)
Q14: L(5,5,5), translated by (-3, -2, -1), then rotated 90°:  around x-axis, then projected onto xy-plane Muses	
Will willer	
L'= 1 0 0 -3 5 = 2 = (2,3,4)	- 3
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1 0 0 1 -1 5 4	
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L"= 1 0 0 3 = 2	
0 0 -1 34	
0 1 0 4 3	•
["" = 2	
_ 4 ]	
L" (2,4) Final as.	
Q15: M(2,2,2), first rotate 90° around y-anis, then	
translated by (1,0,3), then reflected across xzplane	
- Care	
$M'_{\pm}[O \cap D \mid 1][2]_{\pm}[2]$	(A
0 1 0 2 2	
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$M''_{-1} = 0 0 17[27=[37]$	
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Date:				
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	il Valenti	[ 1.]	5.50	
P16: P(4,5) in 2D.	Travolate	by (	3,-2)	
<b>6</b>	J (2) 2		0(31-) +	(AB) (34) 13 19
1. Derive matrix of	transformatio	m.	Valety 4	
•				
P'= (x+dx, y+dy	1	· 10P	del.	وروز کو کی دی ا
P'= (4+3,5-2)= (	7,3)			(3.2)
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2. Apply matrix		<u> </u>	9	
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P#= 1 0 3	4 = 7 5 3			s/(i.e.) !'
0 1 -2				
[0 0 1][	77 [7			
P'= (7,3)				

13/2 R(90°)= 0

Date:	Mured
2. Combined Matrix (A):	
A= R(0). T(dx,dy)	
A= R(90). T(2,3)	1 1
A: 0 -1 0 1 0 2	= 0 -1 2
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3. P'= 0 -1 2 1 = =	2
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