	SET-D Date
1281	Name-Ankit Roll No 11706, Subject - Tompiler Graphics
	01 01 01 0 10 0 0 = (HO = 30 00 0) - V 1
	Q: 1. A cube has its vertices located at
	A(0,0,10)
	B(10,0,10)
	C(10,10,10)
Mary Mary Comment	
	E(0,0,0)
	F(10,0,0) G(10,10,0)
	H(0,0,0)
	The Y-axis is vertical & Z-axis is priented towards the viewer. The
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Rube is being viewed from point (0,20,80). Calculate the perspective View of the Rube on XY- plane. -> G(10,10,10) G(10,10,10) G(10,10,10)
	P (0/20/30) Z

V = (ABCDEFGH) = [0	10	10	o	0	10	10	0	1
The state of the s							10	10.	
the state of the s	10	10	10	10	0	0	0	0	
The second control of	1	1	1	1	1	1	1	1	

Translating the co-ordinates about Y-axis, so that projection P is on Z-axis

P' = (0,0,80).

so the change in the matrix of cube due to shift of co-ordinate from y-axis by 20.

<u>-</u>	0	10	10	0	0	10	10	0	
	-20	-20	-10	-10	-20	-20	-10	-10	Ī
•	10	10	10	10	0	* 0	0	0	
	1	1	1	1	1	1	[1	

Standard Perspective matrix is ->

Here 0:80 (due to co-ordinates of z-casis

M = [0.0000]

Per	a	· O	10		
100	0	a	0	0	
•	0	0	0	U	
St. C 1 . B	0	0	le:	a .	J

0	4 4							
	Joa	100	0	0	loa	10,0	0	
-20a	-200	-10a	-10a	-20a	200	-100	-10a	į
0						0	0	
10ta	10+0	10+a	lota	a	a	a	a	
	-20a	-20a -20a	-20a -20a -10a	-20a -20a -10a -10a 0 0 0 0	-20a -20a -10a -10a -20a		-20a -20a -10a -10a -20a -20a -10a	

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	STUDY BUDDIES
I white acting the line X= Y is somewhile	At the first of
[0 800 800 0 0 800 800 0]	1871 A. C.
-1600 -1600 -800 -800 -1600 -1600 -800 -800	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•
90 90 90 90 80 80 80	
year XIII District	
Take common from the matrix.	
[0 8019 8019 0 -0 10 (Ú O	•
-160/9-160/9-80/9-80/9-20-20-10-10	
0 0 0 0 0 0 0	
m	*
transform back to its original position adding + 20 in R2.	by
adding + 20 en R2.	
A decrease of the second of th	
[0 80 9 80 9 0 0 10 10	0
-2019 -2019 +100/9 +100/9 0 0 10	10
0 0 0 0 0 0	0
	1
	The state of
New Vertices with Perspective View on XY-	plane.

0 0	New Vertice	with	Perspective	View	on xy-plane.
			1.		

V'= (A'B'C'D'E'F'G'H')

Again,

	=	0	80/9	80/9	0	0	10	10	D	
		219	-2019	100/9	100/9	0	0	(0	10	
		0	0	0	0	0	0	Ø	0	
	1	1	1	11	1)	· 14	Lijg	¥ί	1	ل
0		0	0	0	0	0	O Lije	Ø ₂ ,	0	_

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along the X-axis followed by counter clockwise rotation by a degree
Find the value of 0?. Reflection along X=Y line
$\begin{bmatrix} x' \\ y' \end{bmatrix} = \begin{bmatrix} 0 \\ 1 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} - (1)$
Reflection matrix o (counter clockwise). [x'] = [coso - sino [x] - (2) Y'] [sino coso [Y]
Reflection along $X - axid$ $\begin{bmatrix} x' \\ y' \end{bmatrix} = \begin{bmatrix} 0 & 0 & 0 \\ 0 & -1 & 0 \\ 0 & -1 & 0 \end{bmatrix} \begin{bmatrix} x & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$
Also; Reflection along X-axis followed by notation of o
i. (ps0=0; Sin0=1. i.e. 0=17 2 0=77
House
.Value of '0' = IT 2 Ams.