

1. Exerc	cise : 4	2. Date:	20/10/20
3. Title	:Orthographic multi-view projections -	ines and planes incline	d to both the planes
4. Aim			
5. Soft	tware used: AUTOCAD - 2020		
6. Intro	oduction:		
	i. About Orthographic projection of lines i	nclined to both the pla	nes:
	When a line is blaced	inclined to be	oth HP and
	VP, its projection obtain	ed is top and	front views
	are smaller that the bu	ie length of the	he line and
	are smaller than the truined to the project	and one	drawn the
	top on front view of	the line dis	welly.
	, ,		
	ii. Projection of planes inclined to both th	ne planes :	
1.0	Projection of plane in	eluded on lost	to blones are
	called oblique plane.		
	also a single type of	id i a a a a	alway of a
	graphical projection wh	ich a common	V unea or
	technical drawing.		



Procedure (for solving question # 7.1 Question outline : Draw the projection of given dimensions 7.2 Object : Line is 80 mm long 7.3 Conditions (if any) : Line is in 1st Quadrant. Fig. Free hand sketch of the solution to question # 7.4 Drawing Procedure: Step 1. Draw XY line as the reference line and one projector. Step 2: Locate a' on XY line step 3: Take 30° angle from a' and 45° from a' and mark AB i.e 80 mm on both lines. Name these points as 61' and be respectively Step 4: Draw horizontal component of AB abs from point 61 and name it. (The length as gives length OF FV) steps: Extend it upto locus of a and extering a' as centre locate l'as shown. Join a'b'as FV.

8. Commands used:

S.N.	Command	Use
1.	Units	To change the writ
2.	Limit	To set the limit
	Kine	To draw lines
4.	Point	To mark the Boists
5.	Ptype	To change the font of the Boint
6.	Text	To change the sont of the Boint. To enter text
7.	Dimension	To provide the dimensions
8.	Angle	To mark the angles.
9.	Rotate.	To mark the angles. To rotate an object on the
		layouk.
		V

9. Result:

The orthographic projectors of straight lines and planes are drawn using AUtoCAD - 2020

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Signature		Marks	