

1. Exerc	ise: 4 2. Date: 02.11.2020
3. Title	:Orthographic multi-view projections - lines and planes inclined to both the planes
4. Aim	: To draw the orthographic projections of straight lines and planes inclined to both the planes.
5. Softv	vare used: Auto CAD
6. Intro	duction:
	i. About Orthographic projection of lines inclined to both the planes:
	Figure of all we have to find out the inclination with n.P.
	Here Inchartion with H.P. is constant
	from that y- with length in T.V. remain constant.
	- in F.V the dist. between low of its end remain
-	Now we have to find out the ineumation with ViP.
	The shellhalion with the N.P constant.
	- Its length in F.V. remain constant.
	- In 7. V. the dist. between loci of its ends remains
	ii. Projection of planes inclined to both the planes:
	we keep the plane parallel to the pointpal
	plane from which it is to be inclined.
	Then we keep the edge perpendicular
	to the psychelple plane from when It
	1's to be shellhed. First the plane is
	shellined then the edge i's inclined.
	Hence we get projection of planes
1. '	inclined to both planes.
	To be the second of the second
	P. C.

7. Procedure (for solving question # 1) 7.1 Question outline Psuojection of lines, 7.2 Object 7.3 Conditions (if any) : Inclined to HP and V.P. . VI C' I have Loan of B in front view. 9b-TOP VICE 61' a'b' = front view. M 25 **1**38 +1 vt) minute examination Fig. Free hand sketch of the solution to question # 7.4 Drawing Procedure: → Step 1. Draw my line and one perojector. -> Step 2 1. Locate a' on my and a 25 mm below my like. - Step 31- Doraw Low oferom these points. -0 Step 4! Duaw a form inclined line at L 45° to HP from (a). - 1 Step 54 similarly, Drigw a 70 mm included like at 1 30° to VP from (a) - step ( - Duan the down from point be chi horizontal) emilarly, dueno the horizontal docus from point (b) and (a). - Step 7 1- Then draw a line vertically from point be continues it to be . I then make an arc

entend it up to locus of up & subtating

(a) as clubble bocate b as shown.

Join (ab) as T.V.

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Step 8 - similarly, Duaw a Neutrical whe from point (be) continues i't to be (b2). Then mank an auc entend it to be lows a and restating a as centre locate b' as shown. Join (a' b') as F.V.

## 8. Commands used:

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9 Res		(1)	Carol West District	

## 9. Result:

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We have successfully dolaron the projections of Line AB of length 70 mm inclined 45° to MP & 30.

to VIP with end a on MP & 25 mm in front of V.P. by using AutoCAD software.

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