PROJECTIONES OF PLANES WILLIAM

At plane figure (b) Swiface is a two dimensions object having 2 Dimensions length and breadth. It has neglegible thickny, - A plane may be of any shape & such as triangular, square, pertagny, thenogonal, circular etc.

planes may be divided into two types.

(b) oblique plany

planes which ove 17 to one of the reference plane and led (bi) inclined to the other reference plane are called 171 planes

Oplane In to the file to up

(3) plane In to both the v.p (11et to print be plane

(3) plane In to v.p and inclined to the

(5) plane In to the and inclined to the

(b) oblique planes:

planes which are inclined to both ++P

ore known as oblique planes.

Important points:

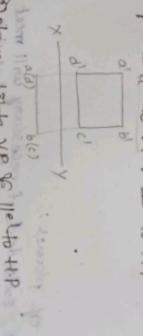
- when a plane is possibled to one of the reference plane than the projection on that plane to which it is led will be it the three shape.

Hen a plane is In to one of the reference plane then the projection on that plane to which it is In is a "stille".

To which it is Inclined to one of the reference plane is inclined to one of the plane to which it is inclined will be in "apparent shape".

Positions:

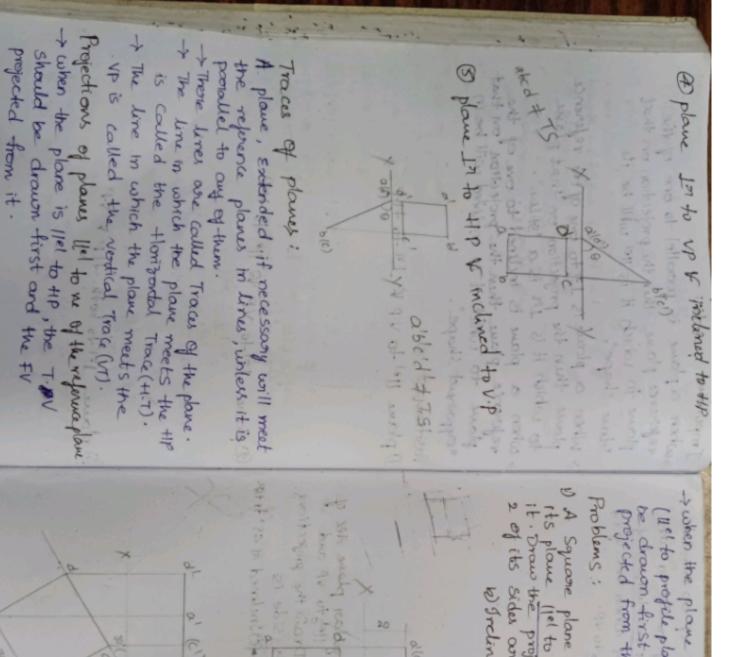
O plane let to V.P K In to H.P

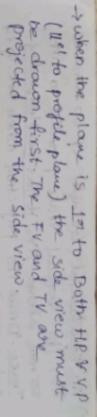


(2) plane Into VP & letto HP

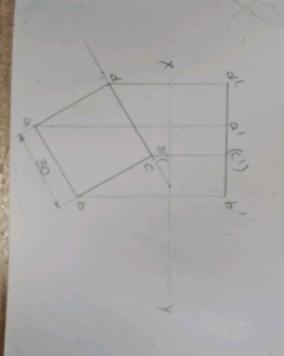
3 plane total of the Up

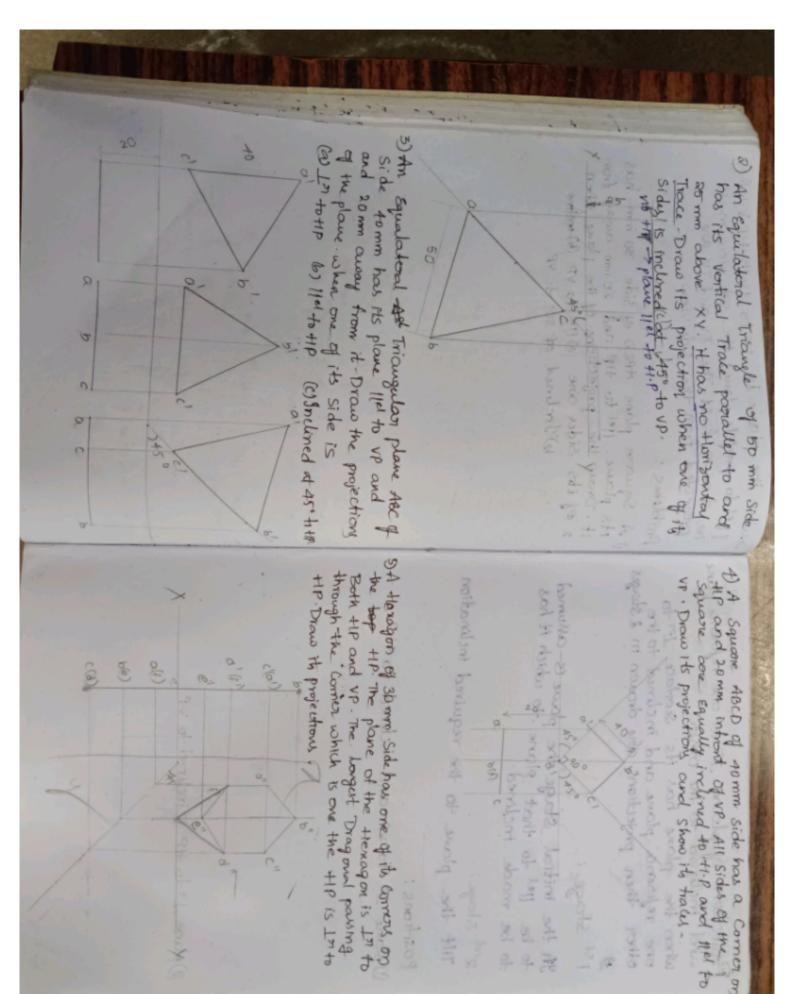
VAT set, the bill or excle set assist

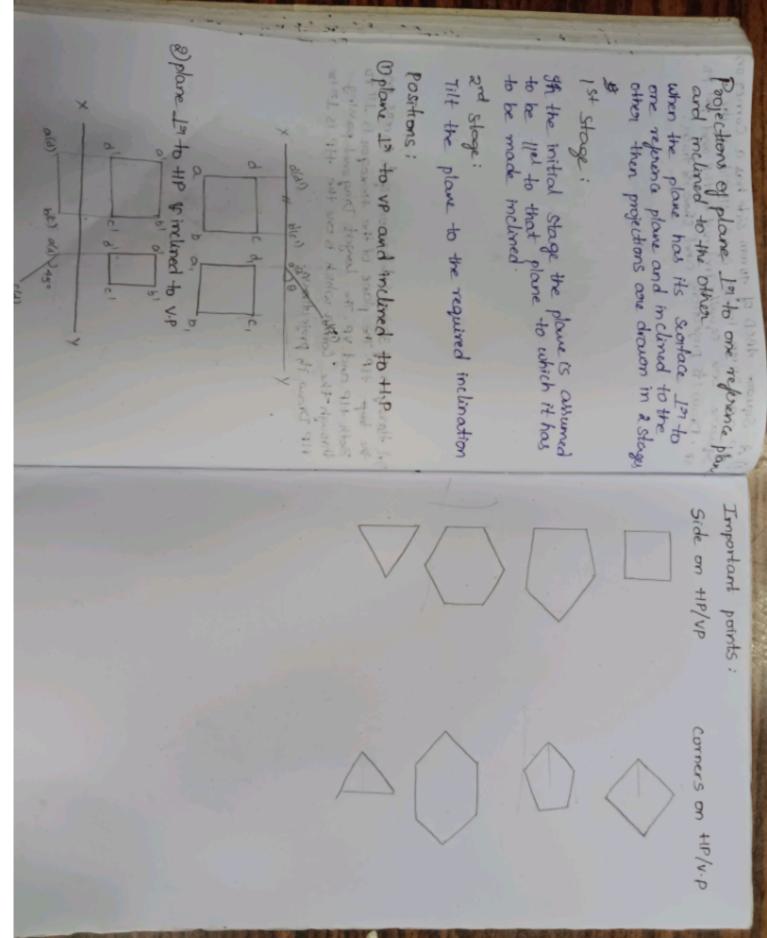




its plane yel to tip and 20 mm away from 2 of its sides one allel to up (b) tretme Problems: it. Draw the projections of the plane when b) Irdined at 30° to up





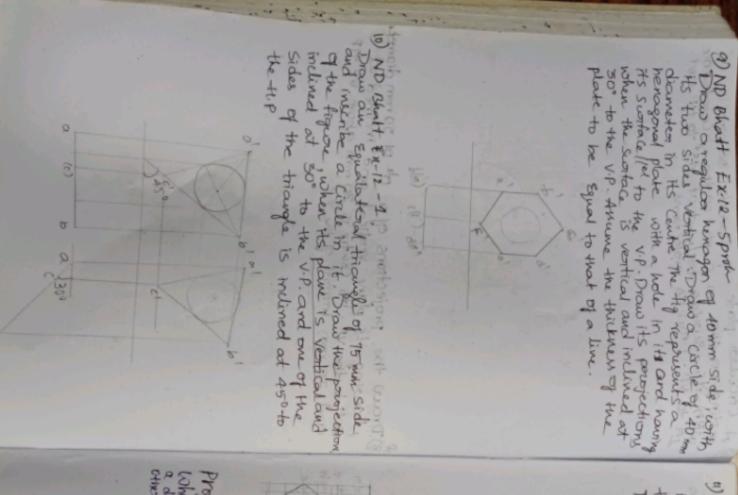


(2) 17 to UP draw its projections regular pentagon of 25 mm has one side Slame is Into N.P to HP and 15 mm away the switche making of pentagon

A regular themagon of to mm side has a side in the HP its swifted is inclined at the HP and In to NP draw its projections

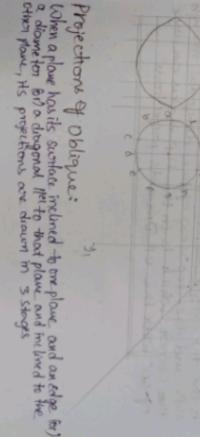
Comes in the the its scortage is inclined at to the the and It to vp. Draw its projections

DA Hexagonal to to V.P & Into HP. Draw its projections. to to UP and In to the draw it projections with a side on V.P and 2(+) comes on V.P and Sconface inclined at 50 plane of Sibe 30 mm is placed Scortale inclined at 30 mm is resting So Draw the projections of a de of 50 mm diame 4) A circular plate and 20 mm with its switch My N 3 (A) (B) any of the Arburn inclined at 45° to HP and of cliameter 50 mm is projections. 30 mm above the HP on the circumforence Nivi



The top view of a plate, the scontace of which is 12 to the UP and inclined at 60 to the HP is a circule of 60 mm diameter.

Draw its 3 views:



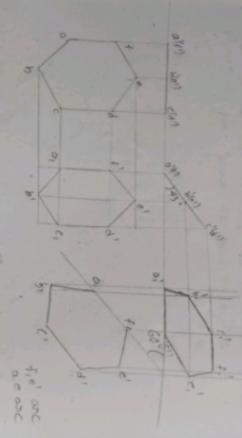
problems on projections of compre Draw the and its surface making an angle of 450 with the +t.P. projections of a regular hemagon Inclined @ 600 to the vp. its sides in and the diagonal

lle to the th.P. Draw its projections

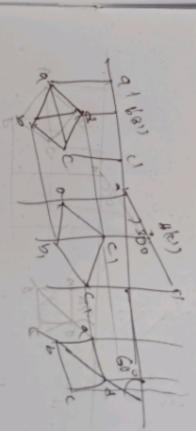
its diagonal AC inclined against BD inclined a

ABCD of 50 mm Side hos its Corner A

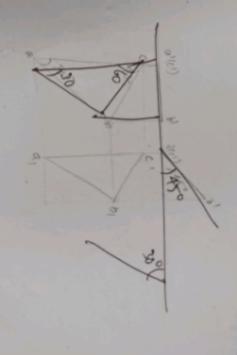
@ 30° to the HP



in the tip its sunface is inclined at 45° to the tip and the top view of the diagonal through the Corner which is in the tip makes an angle of 60° with the U.P. Draw its projections.

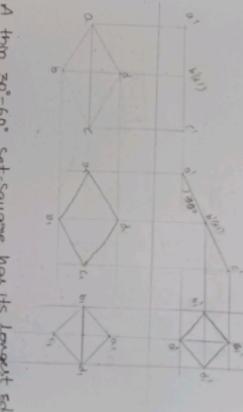


Kept that the longest side is in the H.P. making an angle 30° with the v.P. and the Set square the H.S. inclined a 45° to the H.P. Draw the projection with of set squares.

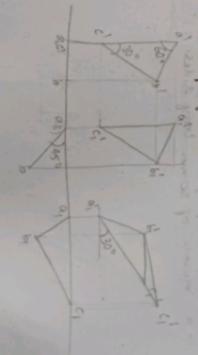


@ 45° to the V.P. The surface of the plate making of 40 mm side, howing its softere irelined of 30° to the H.P and a side led to the HP and inclined a au angle and with the HP. Longer side is led to the +P, and inclined date of me side Draw its projections when ligible thickness is made of 60. to the V.P. . 8) A thin 30°-60° the tip.

Diagonals 125 mm and 50 mm long, the smaller diagonal of which is led to both the principal planes, while the other is inclined a 30° to the H.P.



A thin 30°-60° Set-Squasie has its largest edge in the v.P and inclined a 30°-to the ttp. its scotled makes an augus of 45° with the v.P. draw its projections.



(0 FV is a the The scottage of the plate makes an angle 30" to the the project its top view it its 30° with the V.P. Draw of porojectrons Semi don shorter side in the U.P. and inclined Square of so mm long sides. rangular plate of sides 60mm × 30 mm the V.P. and inclined @ 45° to the plate of 80 mm diameter has its 18) Draw a rhombus by A plate howing shape of an isosceles triangle tique is the top view of a square of 100 mm has base so rum long and its for and determine the angle which its surface placed that in the makes with the ground. with the triangle of 50 mm to XY. Draw its TV sides and one side inclined seridiagonal horryonten. diagonals 100 mm and 60 mm V it is seen as an Equilateral altitude 70 mm. It i's so

Draw the porojections of a ole of 75 mm diameter appears as an ellipse in the FV, having the End 'A' of the diameter AB in the HP, the End B in the V.P, and the Surface inclined @ 30° to the +1. Pand @ 60° to the V.P as the ove there's

