**Term 2 - 2022**

**DRAWING & DESIGN (449/1)**

**FORM FOUR (4)**

**PAPER 1**

**Time: 2½ Hours**

**MARKING SCHEME**

1 (a) Architect He produces designs in form of sketches. He is a client representative on site

Draughtsman he produces accurate working drainage to be used. He works on sketches produced in a designer

(b) (i) BLADE: should not be in contacts with heavy objects suspend it and work with cloth.

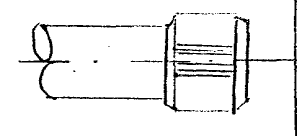
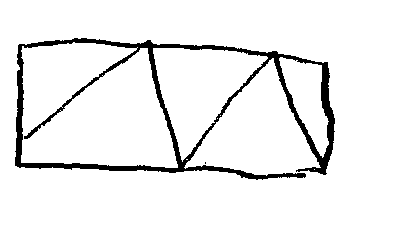
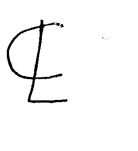
(ii) STOCK –Take care not to have a loose stock tighten the screw or assemble it to form 900

2. (a) LOCATING CENTRES OF (i) Dividing drawing into equal or symmetrical parts.

(ii) indicating Arcs.

Fig 1

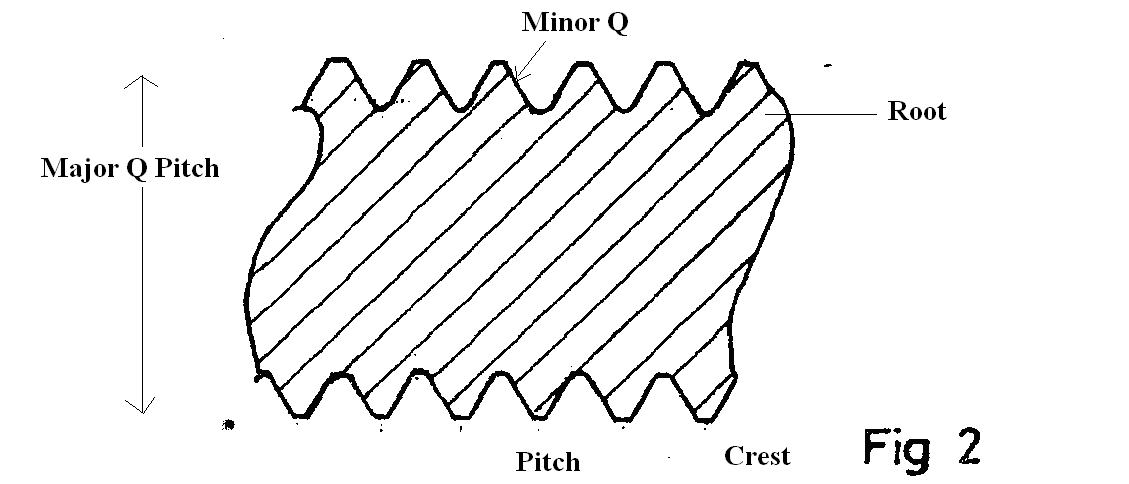
(b) (i) Straight Knurting (ii) Hardcore (iii) Centerline (iv) Two way Switch

3 (a) Restriction is a factor which limits the freedom of choice e.g. of materials methods sizes e.t.v

Prototype a scaled model which reveals design problems not anticipated or forseen during the stages

(b)

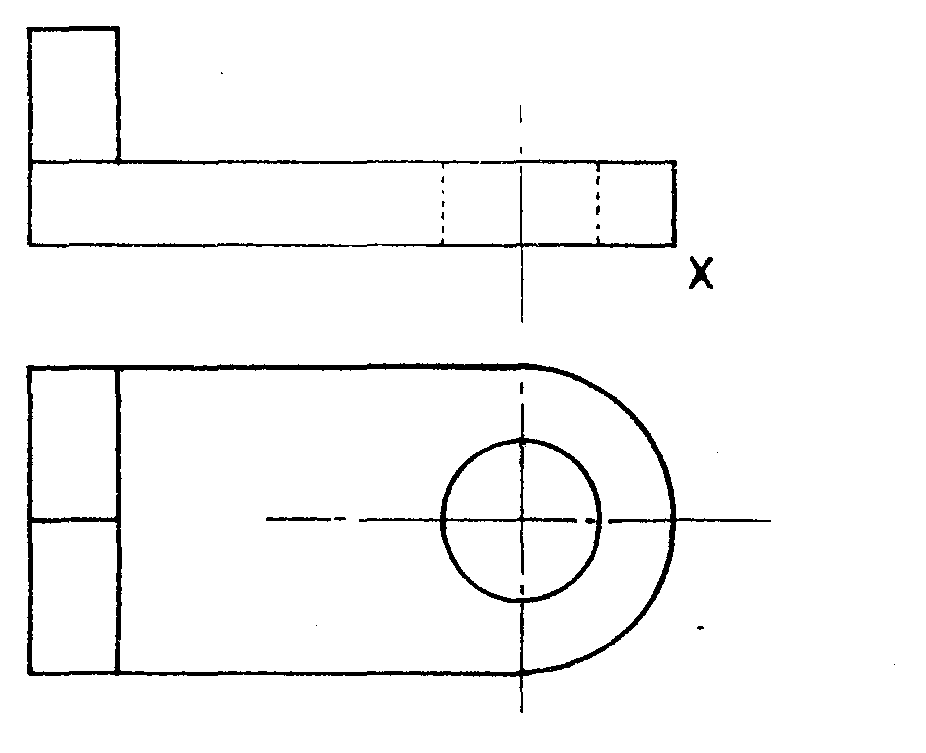


4.

Bronze 5 (a) (i) Soft solder 5 (a) ii Brass 5 (a) iii

In and copper and will Tin and lend copper and zinc

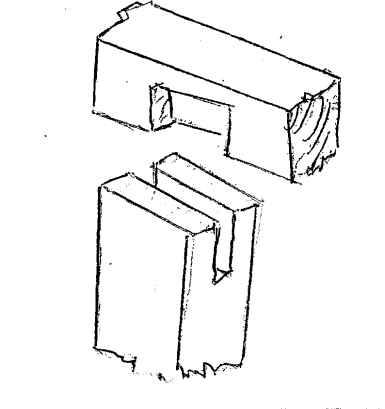
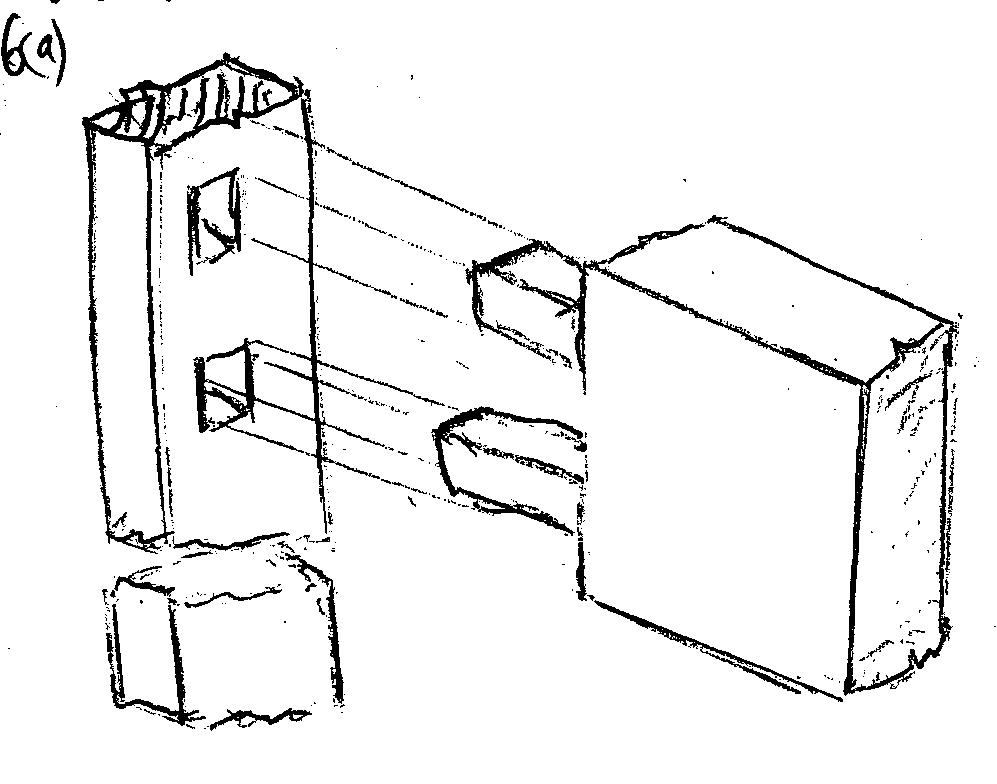
quantities of zinc



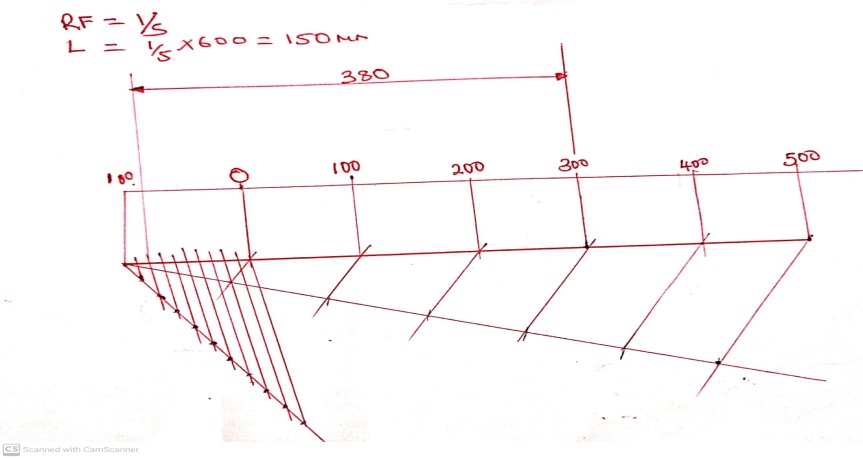
5 (b)   
Figure 4

Double mortice and tenon joint stopped housing joint

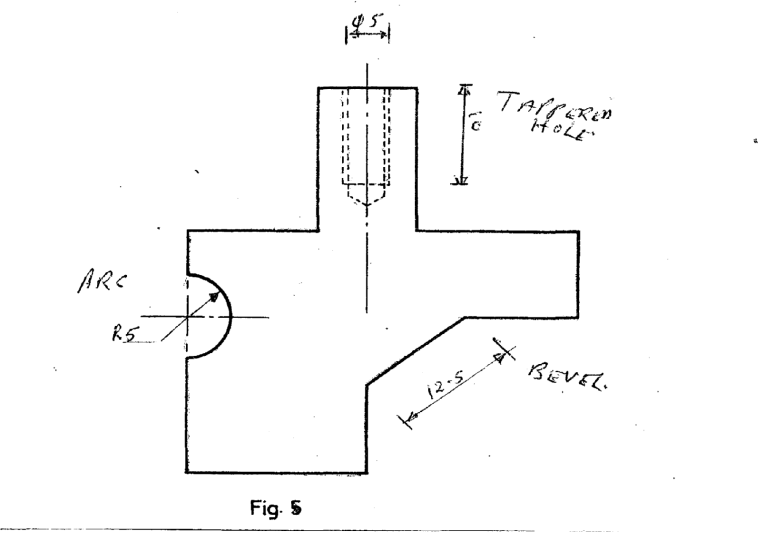
6 (a) 6. (b)



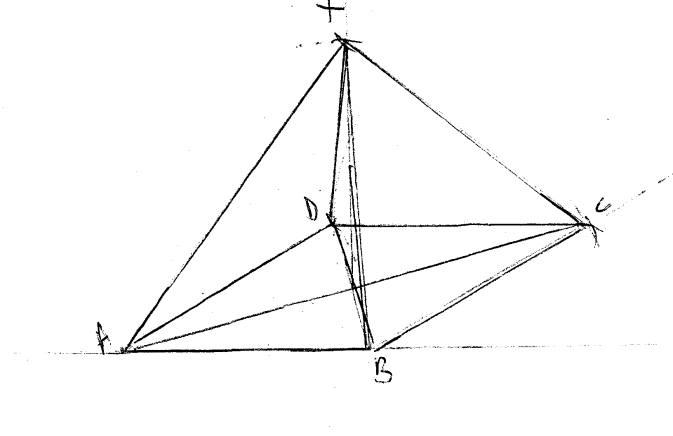
7, Plain scale

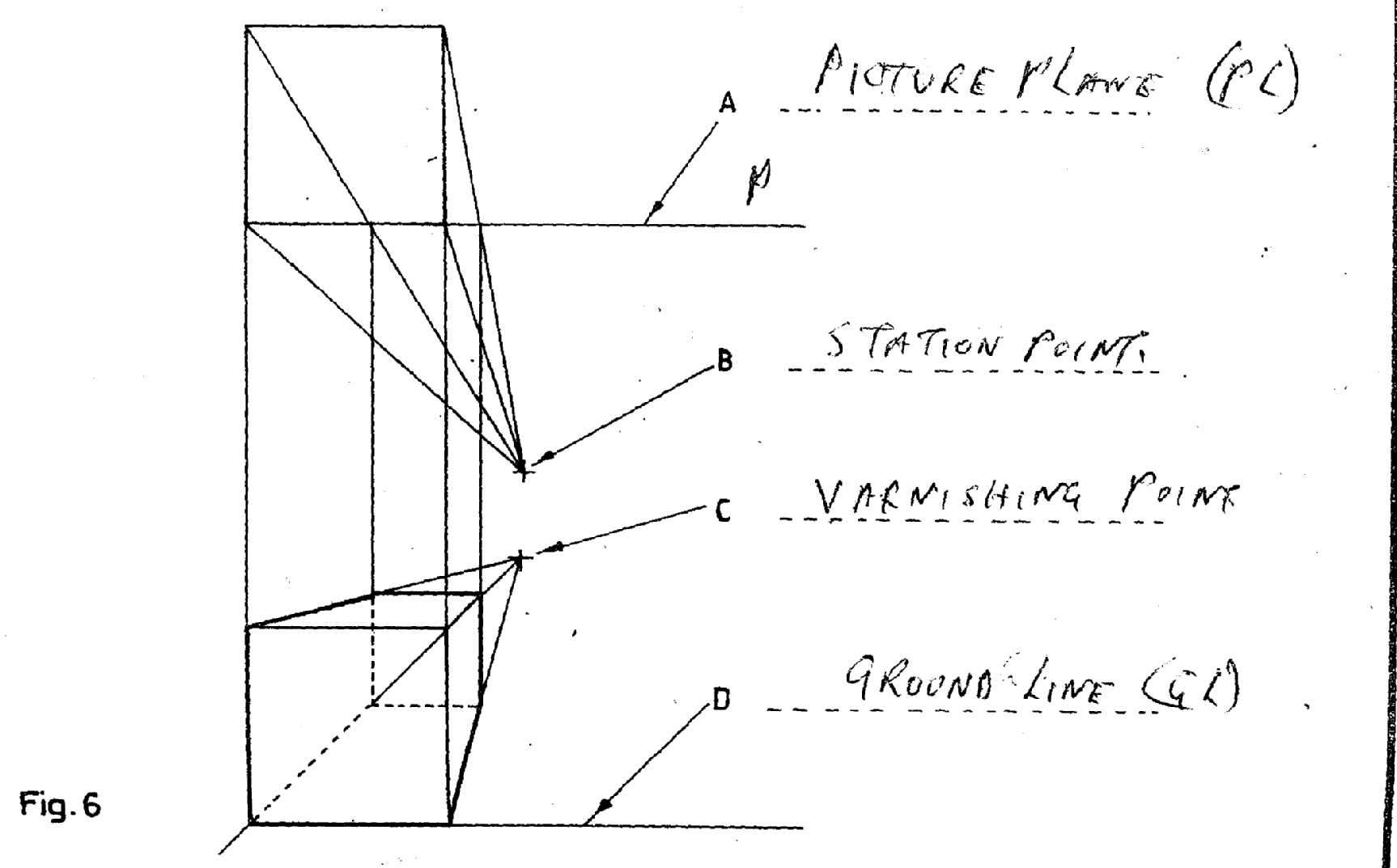


8 (a)

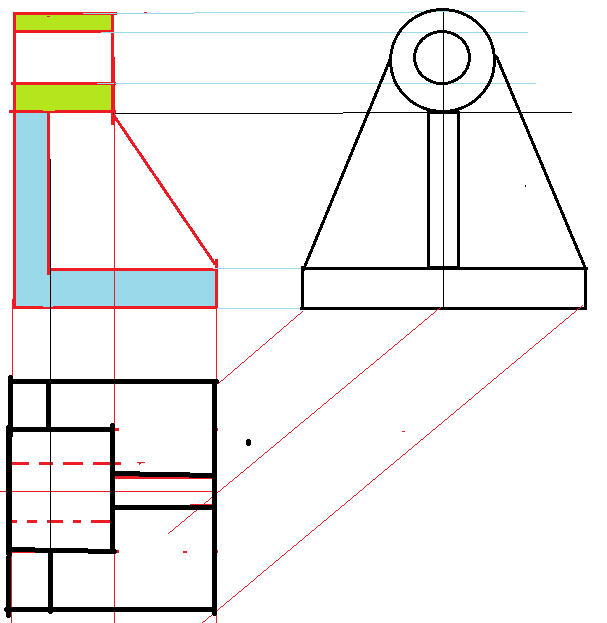


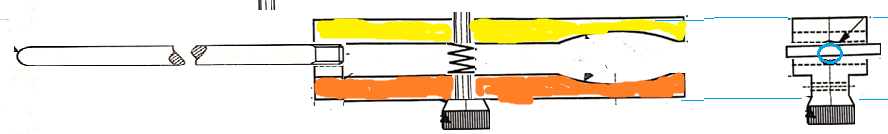
8 (b)



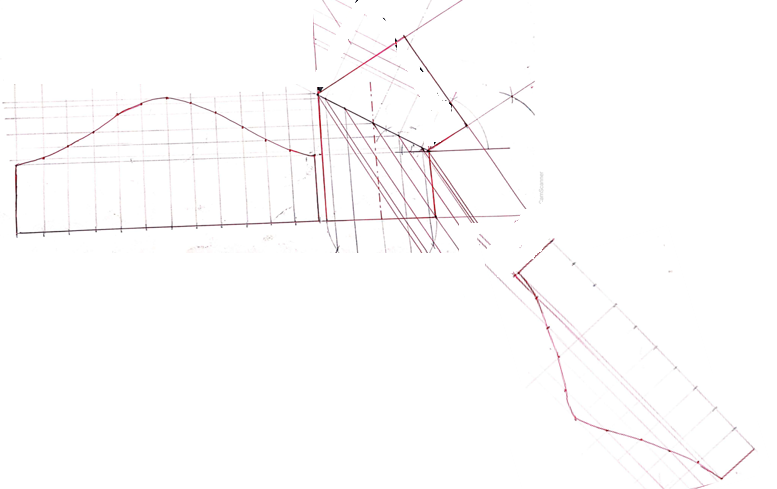
9. 

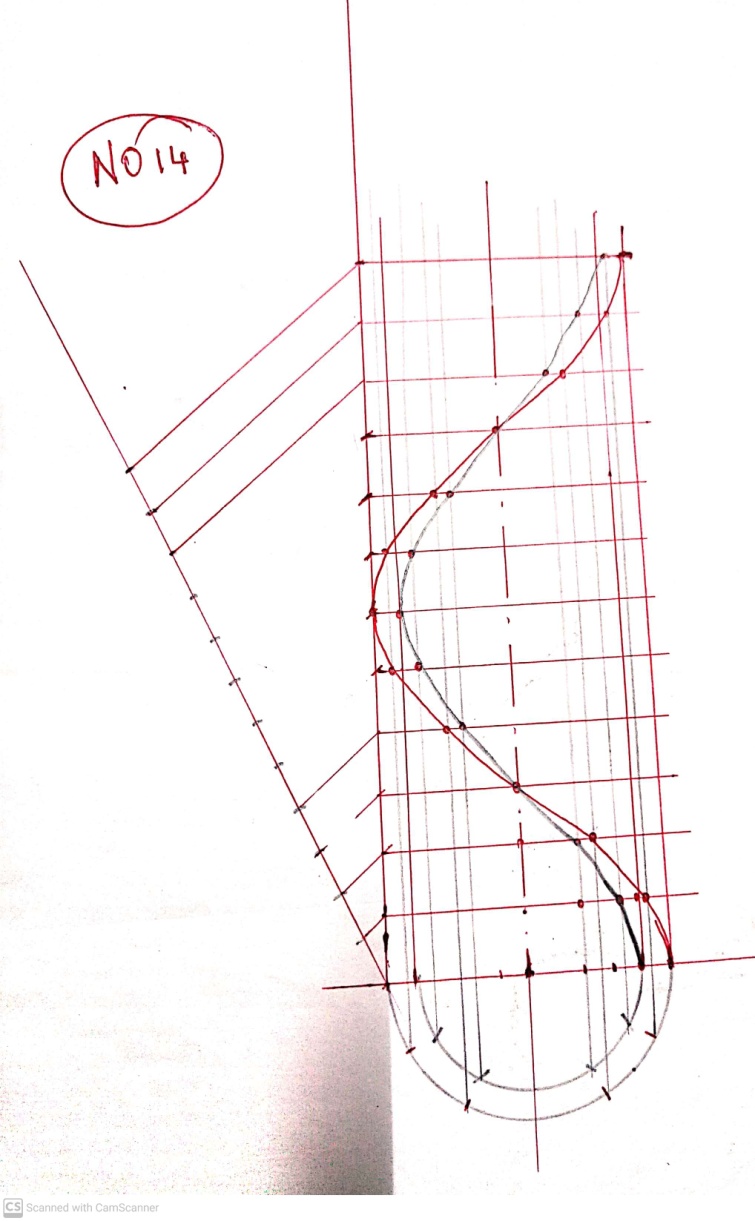
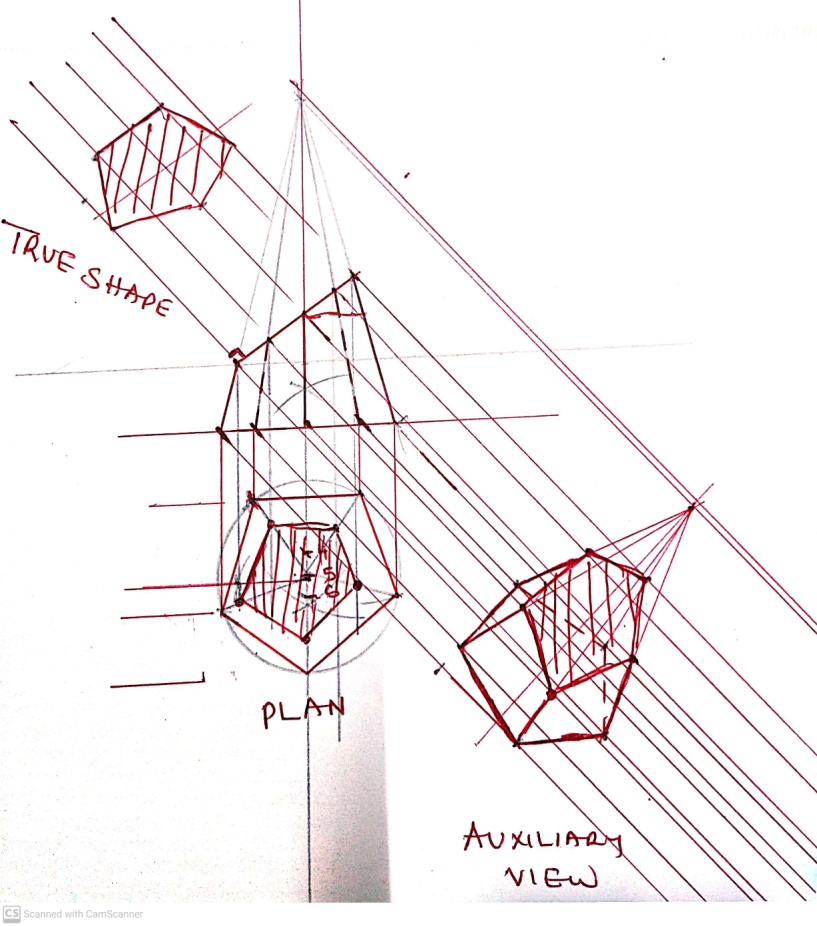
10.



11. 

12





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