

## Projection of Planes --

- Q1. A sphere lamina (thin layer of composite structure ABCD) of 25 mm side is parallel to HP and is 10 mm from it. Its edge nearest to the VP is 10 mm from the VP. Draw its projections and locate its traces using 3<sup>rd</sup> angle projection.
- Q2. A regular hexagon lamina of 20 mm side rest on one of its sides on HP, it is parallel to and 11 mm away from VP and it is in 1<sup>st</sup> quadrant. Draw its projections.
- Q3. A regular pentagon (ABCDE) 20 mm side has its corner A in HP and side CD is parallel to HP. Draw its projections when its plane is parallel to and 10 mm away from VP.

Q4. A square lamina ABCD of 30 mm side is  $\perp$  to VP and inclined to HP at  $45^\circ$ . It rests on one of its side in HP. Draw its projections and position of traces, the corner point C is 12 mm in front of VP.

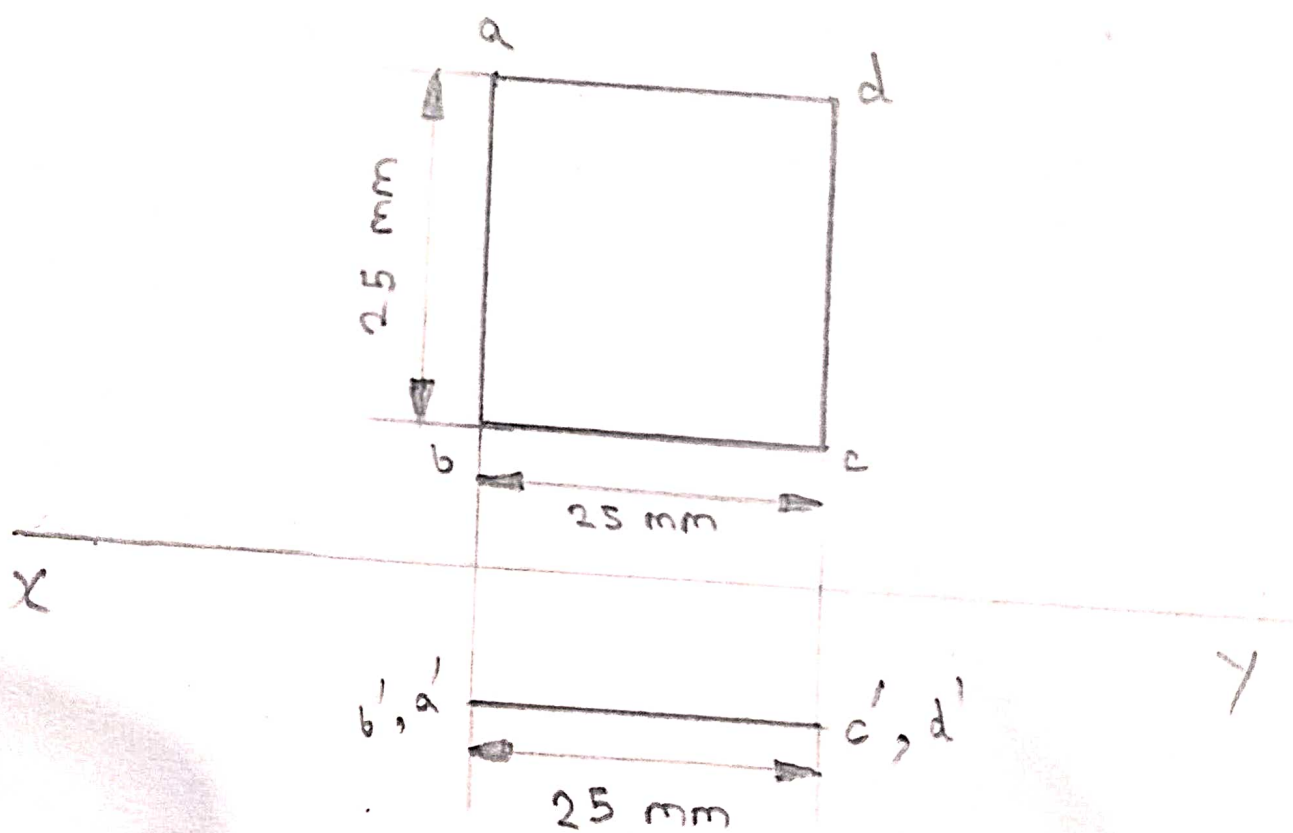
Q5. A regular pentagon ABCDE of 25 mm side has its side BC in HP. Its plane is  $\perp$  to HP and inclined at  $45^\circ$  to VP. Draw projections of pentagon and show its traces when its corner nearest to VP is 10 mm from it.

Q6. Draw the projections and traces of a thin circular sheet of  $\phi$  (50 mm) and negligible thickness. When its plane is inclined at  $45^\circ$  to VP and is  $\perp$  to HP. A point on its circumference and nearest to the VP and 40 mm away from HP and 14 mm away from VP.

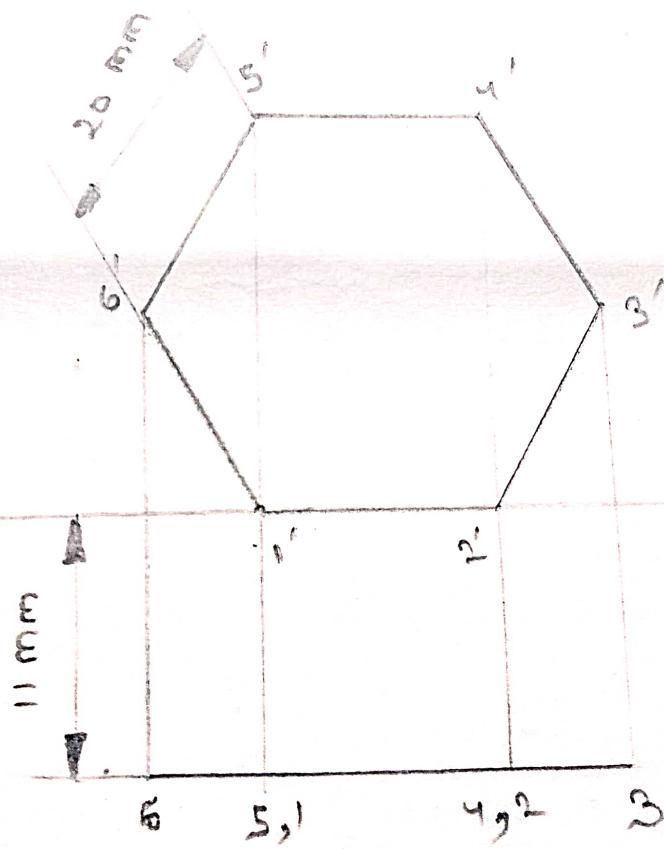
Q7. A regular pentagonal lamina of 25 mm side rest on HP on one of its sides such that it is inclined to HP at  $30^\circ$  and the side on which it rests inclined at  $45^\circ$  to the VP. Draw its projections in first angle.



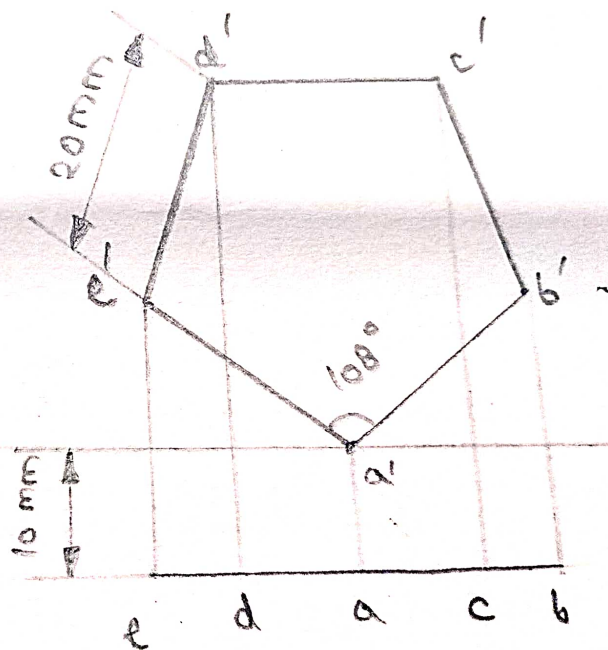
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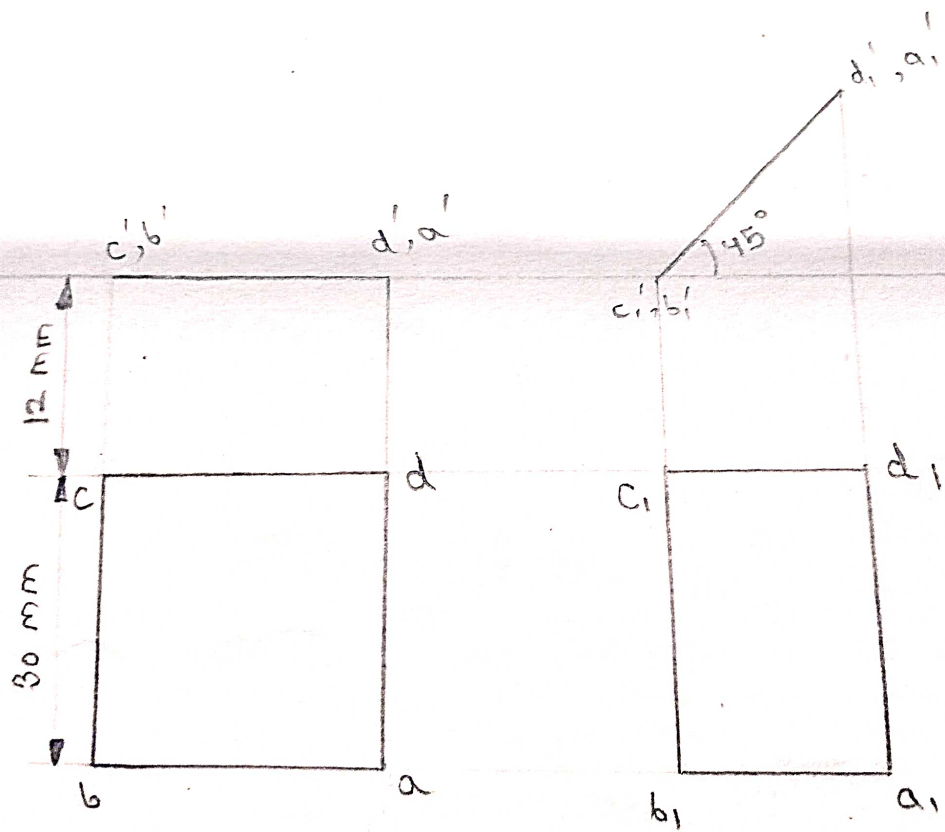
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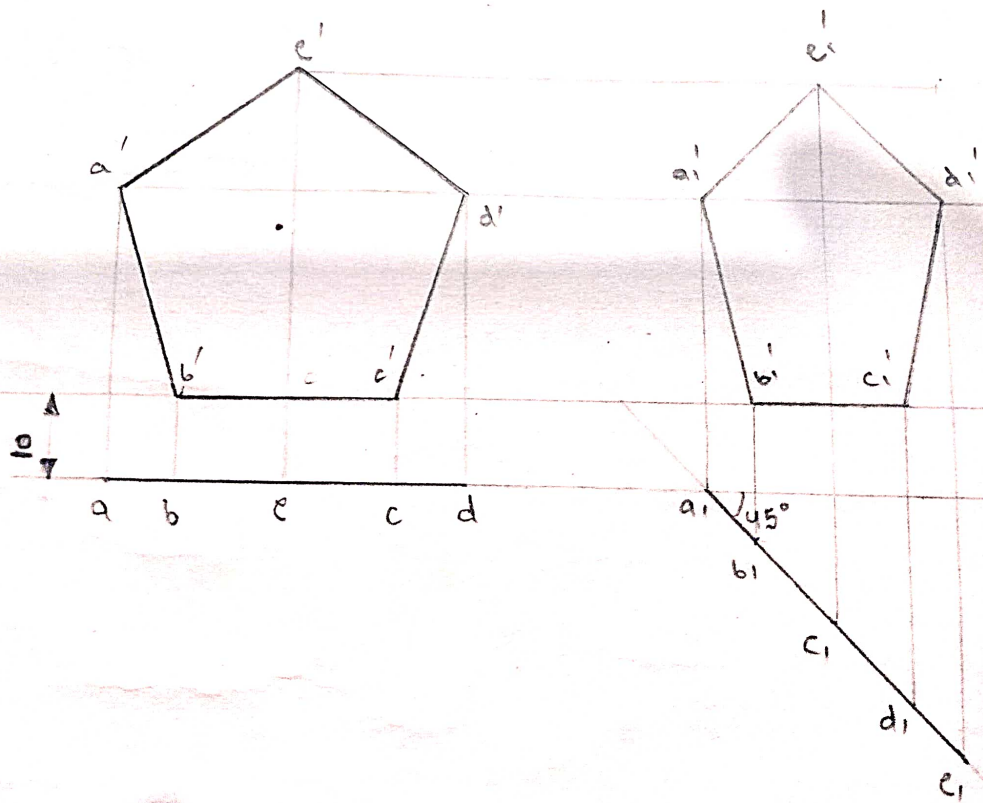
3.



4.



5.



6.

