

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 3rd angle projection.

Q2. A regular hexagon lamina of 20 mm side rest on one of its sides on HP, its is parallel to and 11 mm away from VP and it is in 1st 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

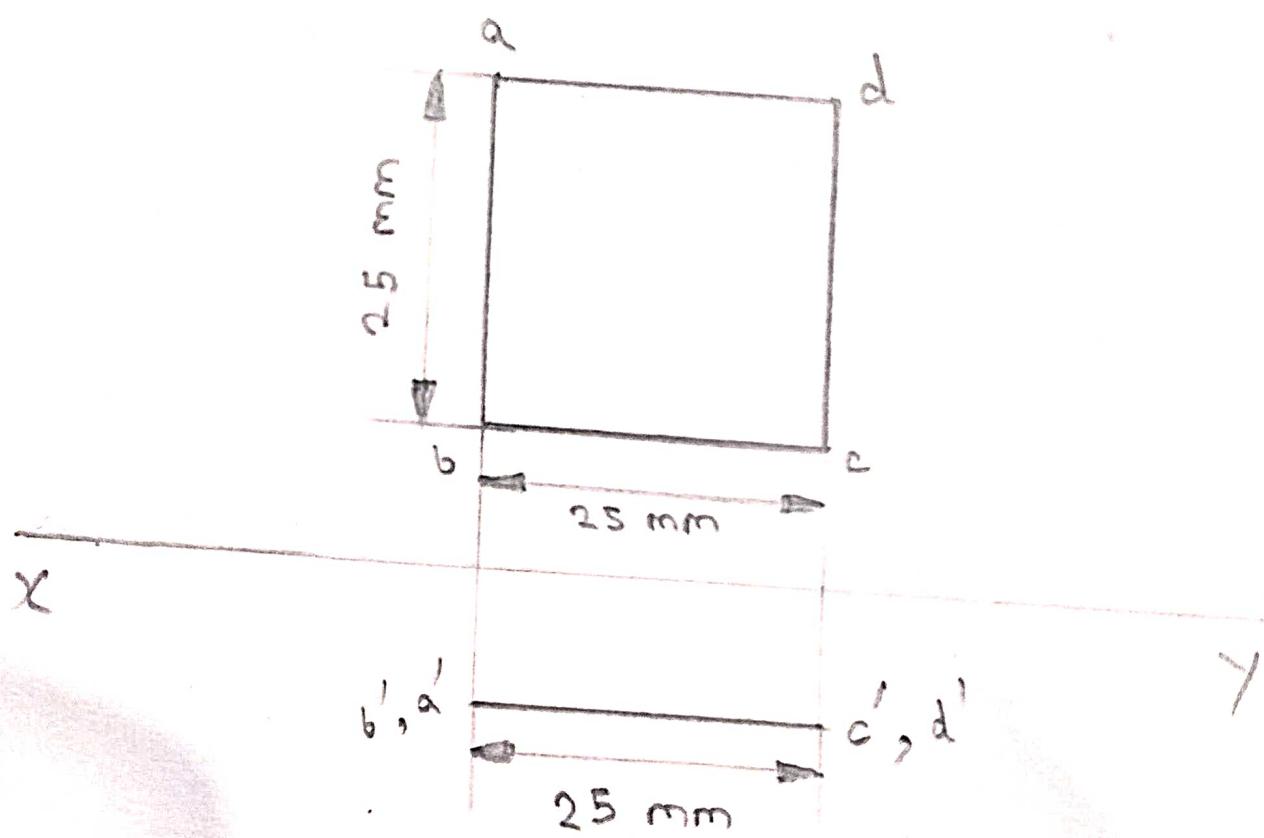
Q4. A square lamina ABCD of 30 mm sides is \perp to VP and inclined to HP at 45° . It rests on one of its sides in HP. Draw its projections and position of traces, the corner point C is 12 mm in front of VP.

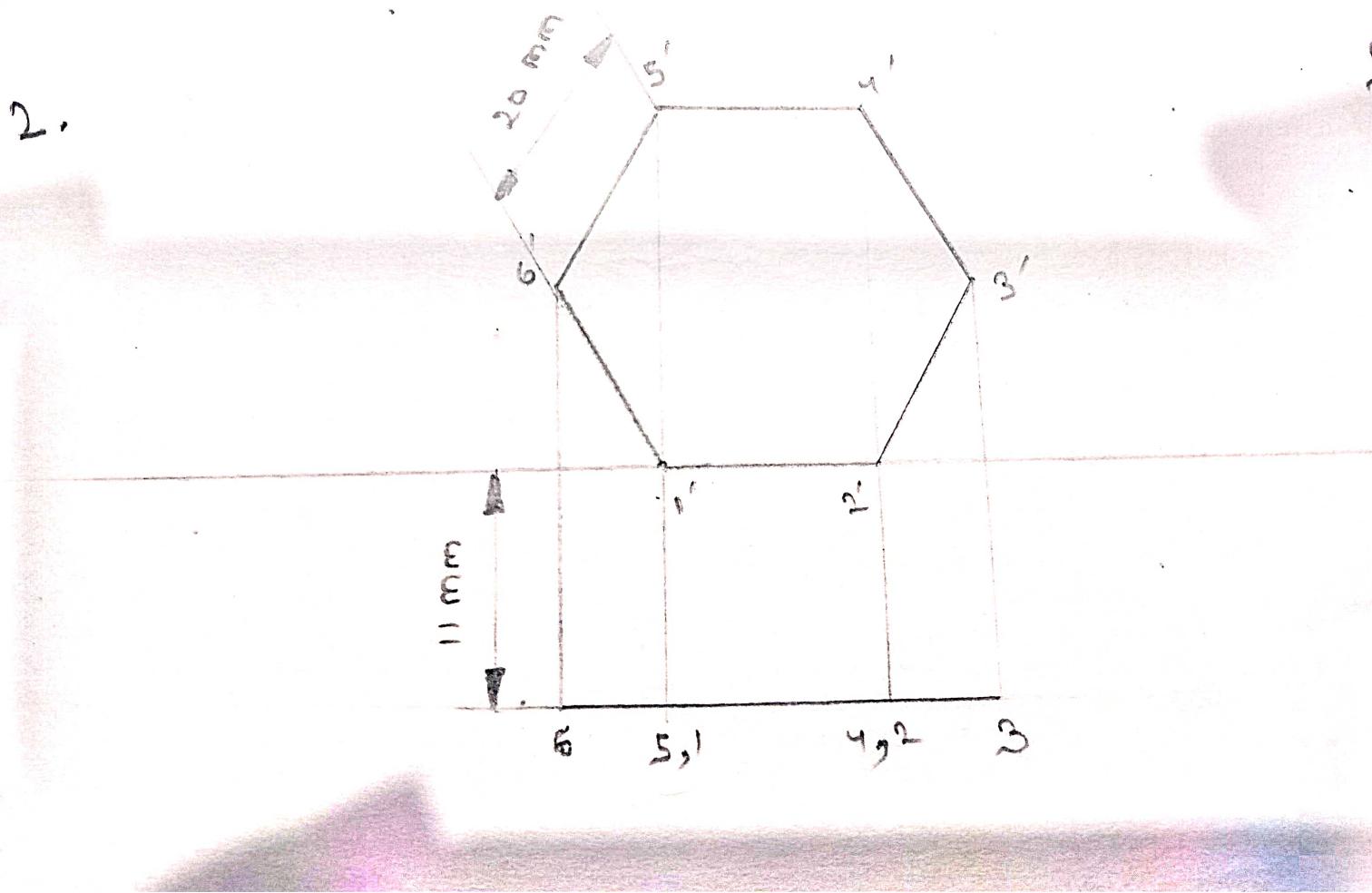
Q5. A regular pentagon ABCDE of 25 mm side lies \perp to its side BC in HP. Its plane is \perp to VP and inclined at 45° to VP. Draw projections of pentagon and show its traces when its corners nearest to VP is 10 mm from it.

Q6. Draw the projections and traces of a thin circular sheet of ϕ (50 mm) and negligible thickness. When its plane is inclined at 45° 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.

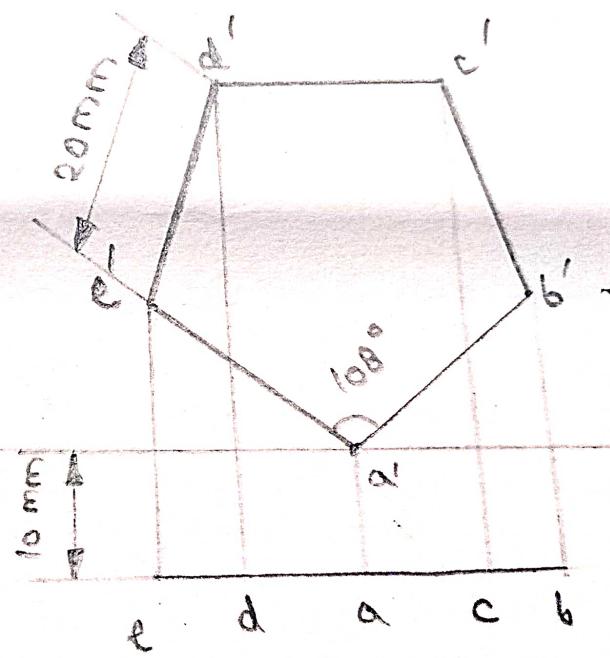
Q7. A regular pentagonal lamina of 25 mm side rests on HP on one of its sides such that it is inclined to HP at 30° and the side on which it rests inclined at 45° to the VP. Draw its projections in first angle.

1.

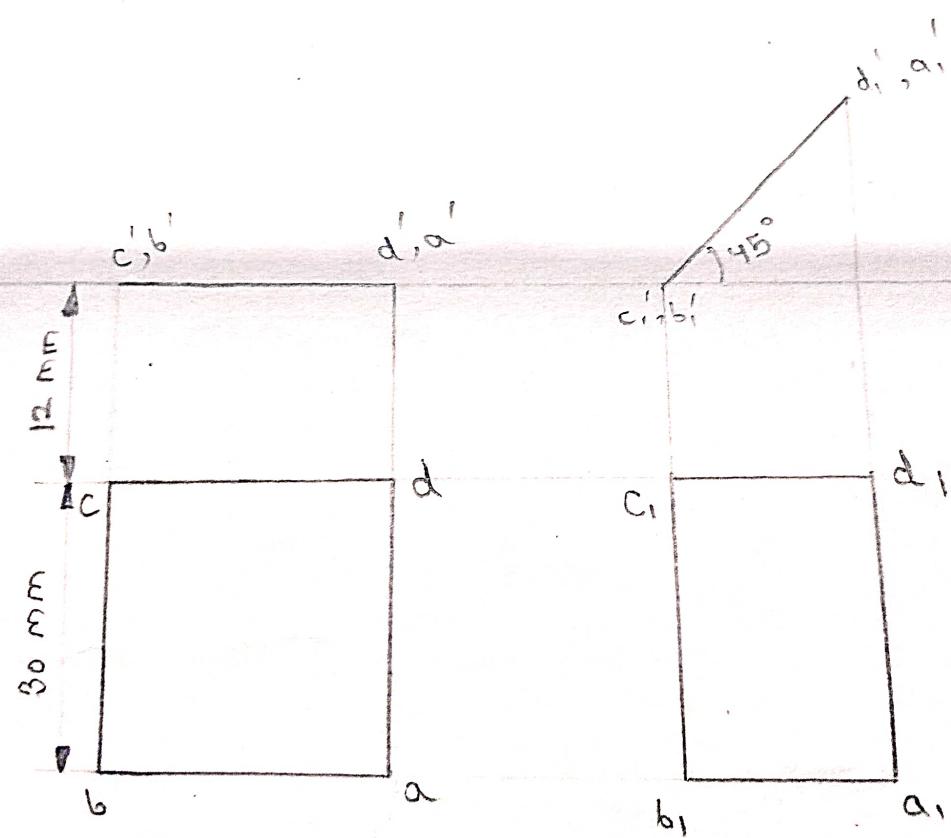




Q3.



4.



5.

