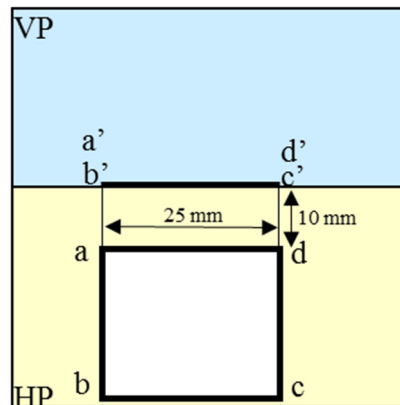
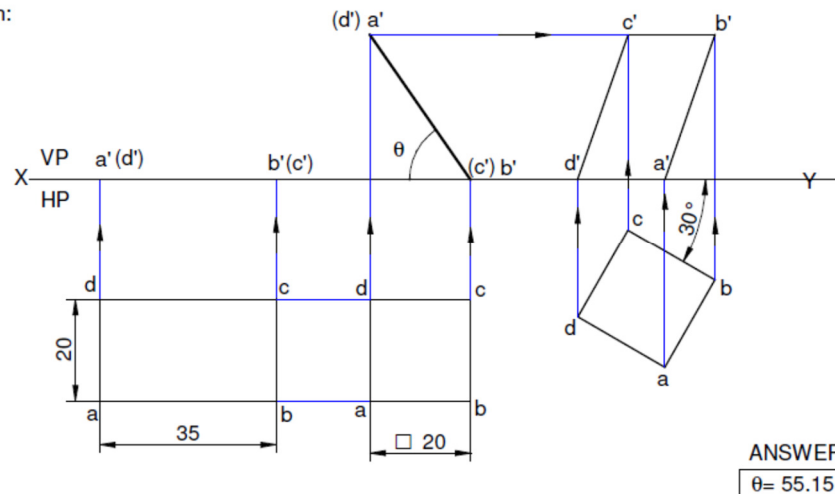


1. A square lamina ABCD of side 25 mm is in the horizontal plane. The two closest vertices of the lamina to the vertical plane is at a distance of 10 mm from it. Draw its projections. [10 marks]



2. A rectangular lamina of 35 mm X 20 mm rests on HP one of its shorter edges. The lamina is rotated about the edge on which it rests till it appears as a square in the top view. The edge on which the lamina rests is inclined at 30 deg. to VP. Draw its projections and find its inclination to HP. [15 marks]

Solution:



ANSWER

$\theta = 55.15^\circ$

3. A Triangular plane figure of sides 25 mm is resting on HP with one of its corners, such that the surface of the lamina makes an angle of 60 deg. with HP. If the side opposite to the corner on which the lamina rests makes an angle of 30 deg. with VP. Draw the top and front views in this position. [25 marks]

