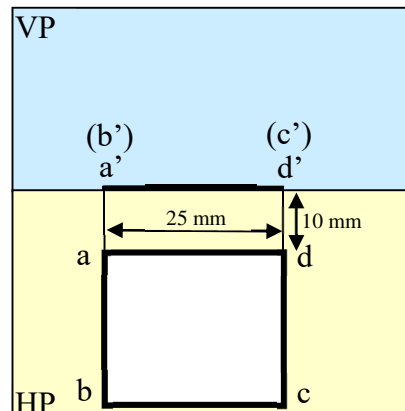
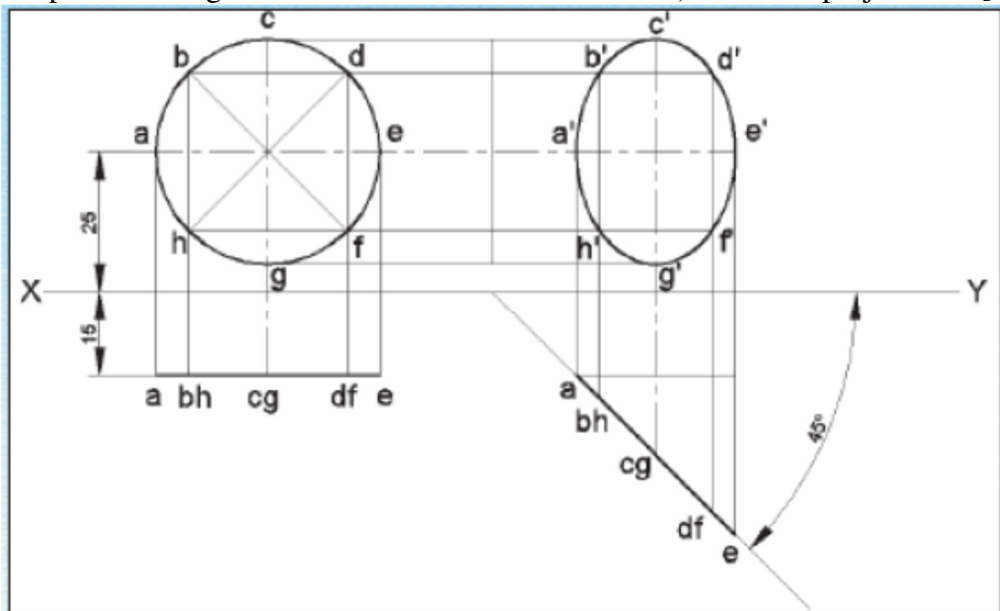


1. A square lamina ABCD of side 25 mm is in the horizontal plane. The two closest vertices of the lamina to the vertical plane is at a distance of 10 mm from it. Draw its projections. [10 marks]



2. Draw the projections of a circular lamina of 30 mm diameter whose centre is at distance of 25 mm above the HP and 15 mm in front of the VP. The lamina is inclined at an angle of  $45^\circ$  to VP (the axis of rotation passes through the extreme left end of the lamina). Draw its projections. [15 marks]



3. A rectangular lamina of sides 20 mm X 30 mm rests on HP on one of its longer edges. The lamina is tilted about the edge (right side long edge) on which it rests till its plane surface is inclined to HP at  $45^\circ$ . The edge on which it rests is inclined at  $30^\circ$  to VP. Draw its projections. [25 marks]

