1. Points 1,2,3,4,5 and 6 lie on different locations with respect to the horizontal and vertical planes. If these points are joined by straight lines, it forms a regular hexagon of 50mm side, with origin as centre, with true dimensions visible in the side view. Locate each of the points and project them individually on a common XY line, keeping 30mm distance between the projectors for each point.

HP

VP

(0,0)

O

2

3

4

5

6

1

1. In a large room, two big bulbs A and B are hung from the roof. A string of smaller LED bulbs, of 8.08m is tied tightly connecting the ends of A and B making an angle 30 degree and 40 degree with the HP and VP respectively. Bulb A is 2.5m above the ground while B is placed at a larger height than A. Draw the front and top views of the arrangement.
2. End A of a line AB is 25mm below HP and 30mm behind VP. Line is 30 degree inclined to HP and 45 degrees to VP. There is a point P in the middle of AB is contained by both HP an VP, and B lies in 1st quadrant. Draw the front and top views of AB
3. The projections on the XY line of the horizontal and vertical traces of a straight-line AB in the first quadrant are 120 mm apart. The VT is 100m above XY line and HT 50mm in-front of XY. The point A and B are 30mm and 80mm above HP. Draw projections. Find the true length