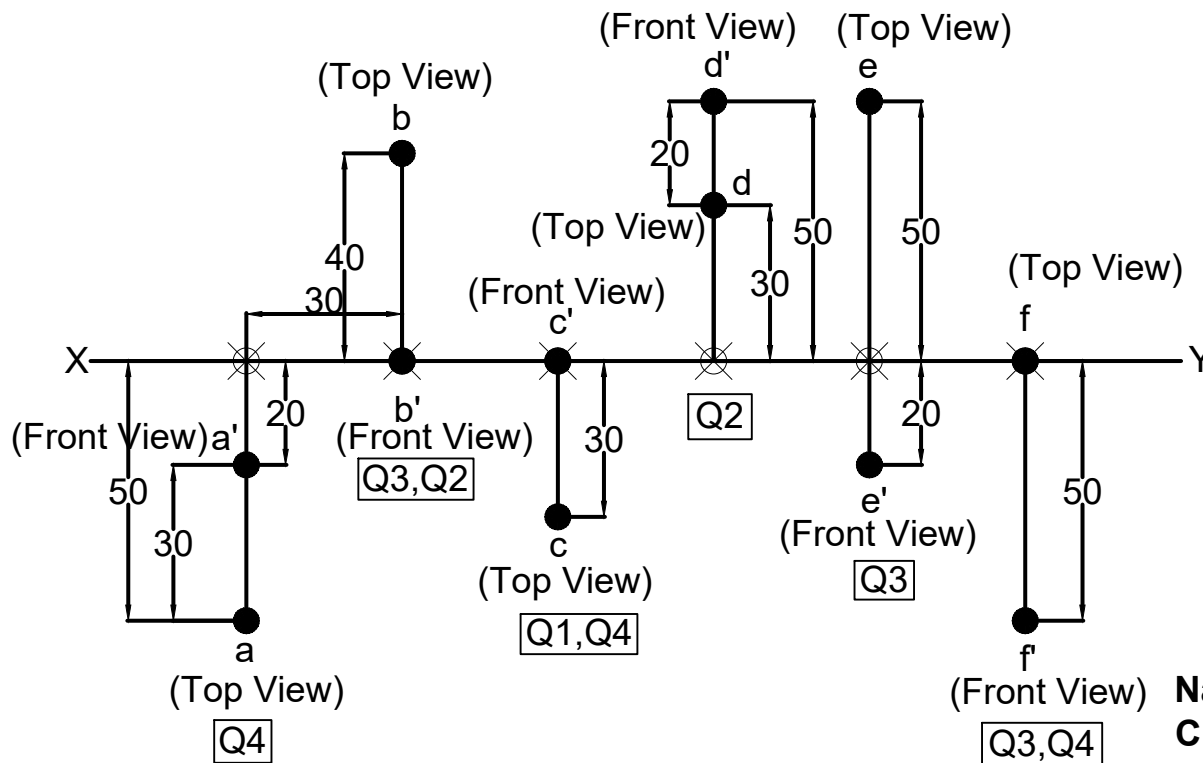


1. Draw the projections of the following points on a common reference line keeping the distance between their projectors 30 mm apart.

- (a) Point A is 20 mm below the H.P. and 50 mm in front of the V.P.
- (b) Point B is in the H.P. and 40 mm behind the V.P.
- (c) Point C is 30 mm in front of the V.P. and in the H.P.
- (d) Point D is 50 mm above the H.P. and 30 mm behind the V.P.
- (e) Point E is 20 mm below the H.P. and 50 mm behind the V.P.
- (f) Point F is in the V.P. and 50 mm below the H.P.

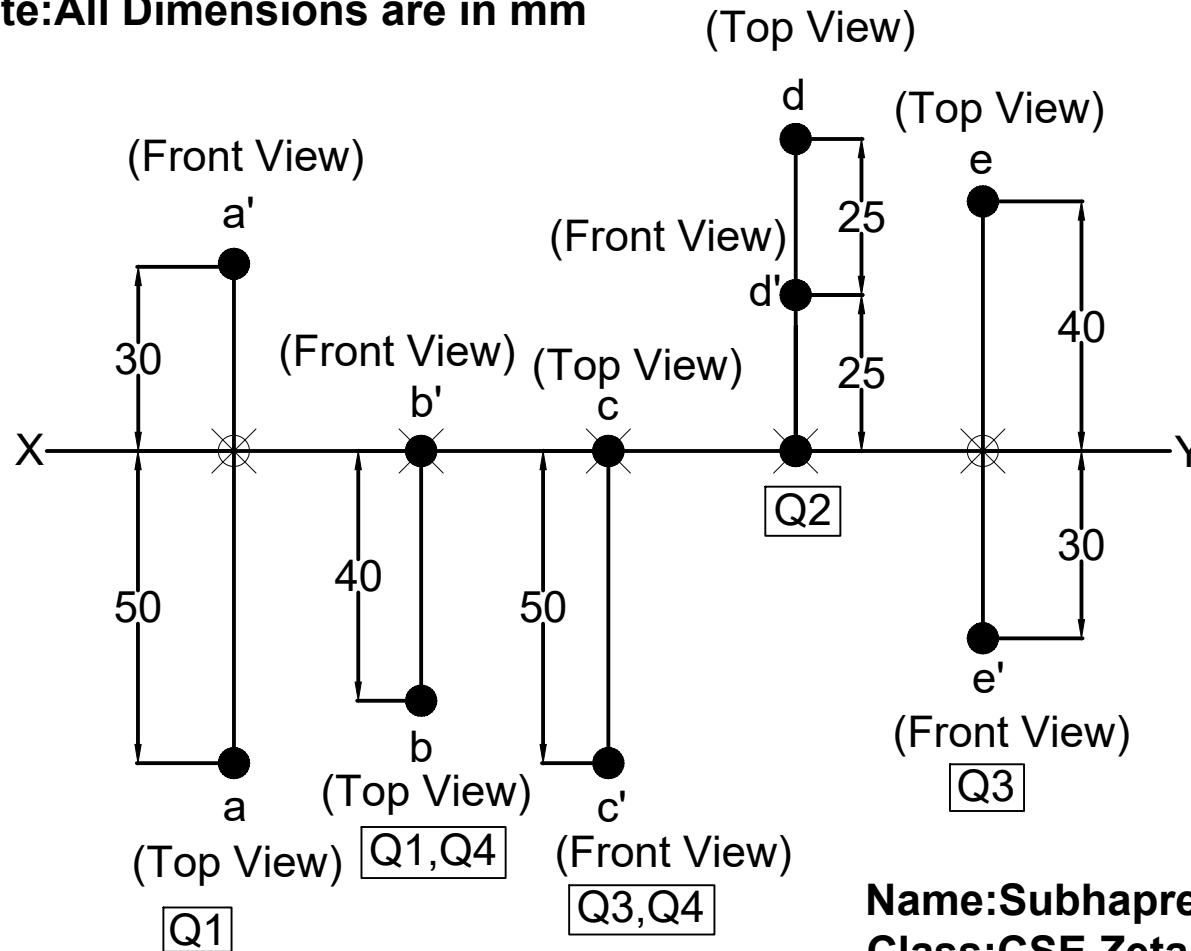
**Note: All Dimensions are in mm**



**Name: Subhpreet Patro**  
**Class: CSE Zeta**  
**Roll No.: 2211CS010547**

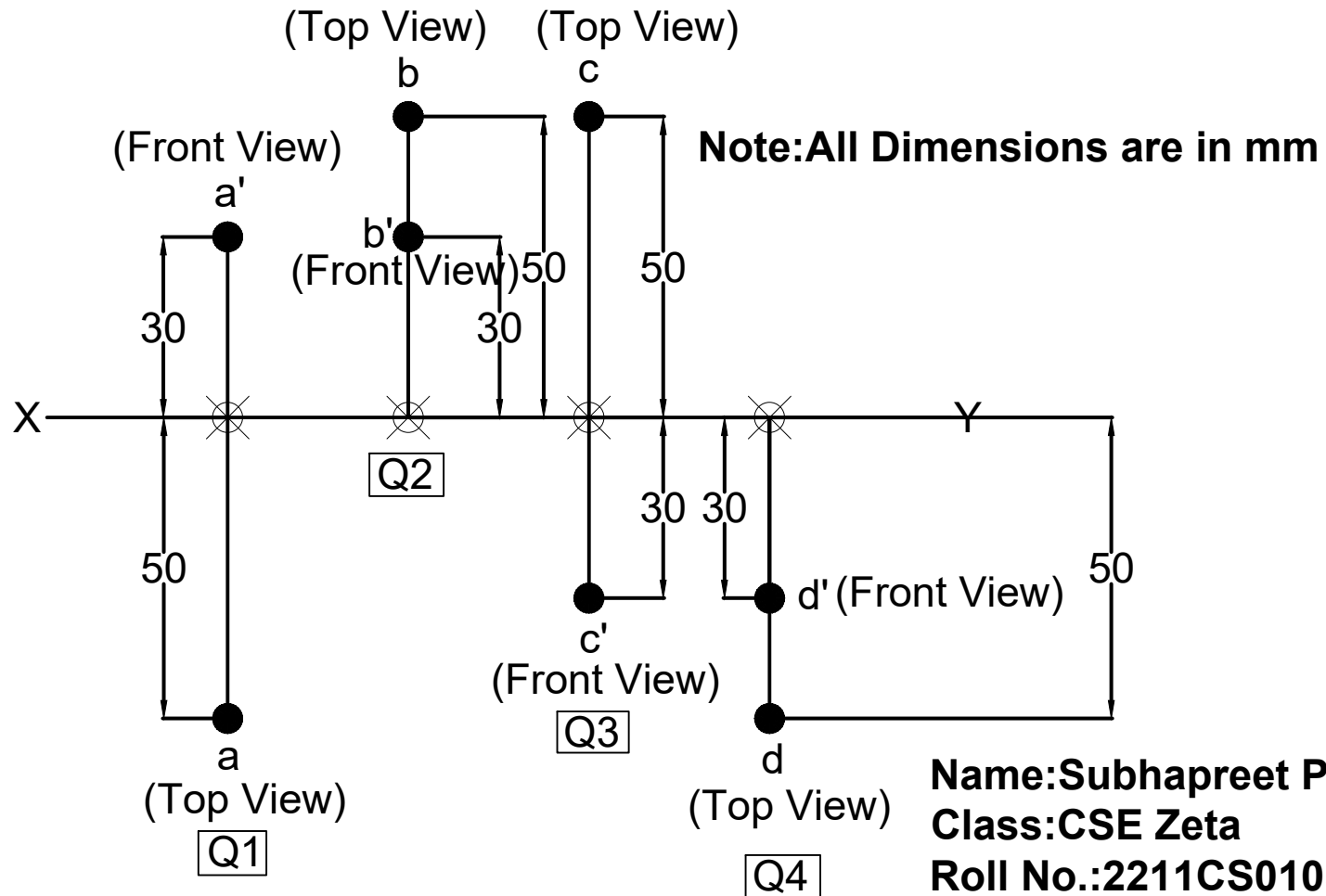
2. Projection of various points is given in below figure. State the position of each point with respect to the planes of projection.

**Note: All Dimensions are in mm**



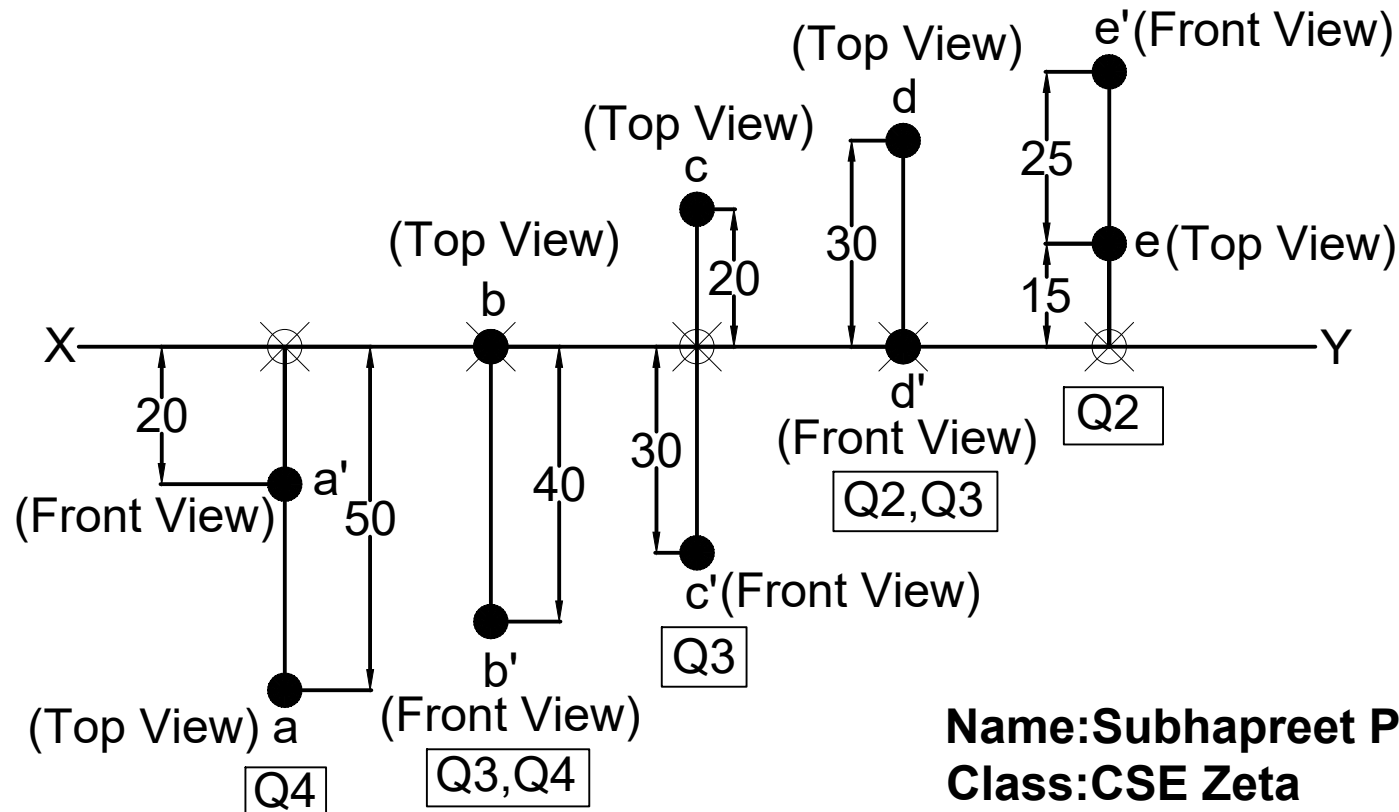
**Name: Subhapreet Patro**  
**Class: CSE Zeta**  
**Roll No.: 2211CS010547**

3. A point is 30 mm from the H.P. and 50 mm from the V.P. Draw its projections keeping it in all possible positions.



4. Projections of various points are given in State the position of each point with respect to the planes of projection, giving the distances in centimeters.

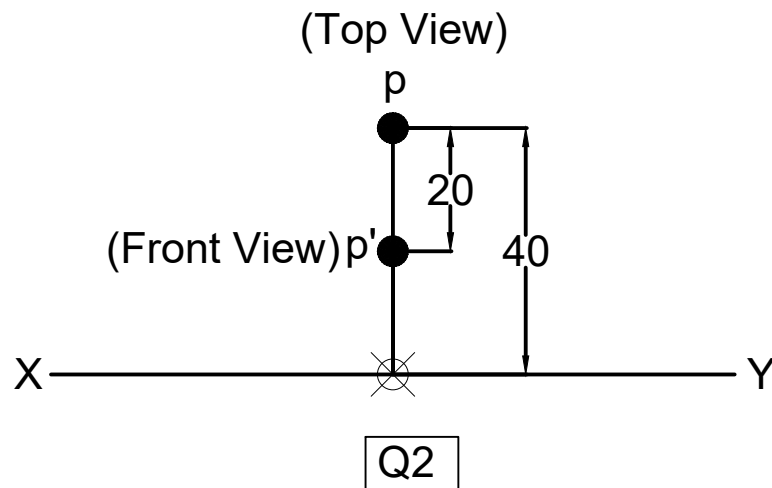
**Note: All Dimensions are in mm**



**Name: Subhapreet Patro**  
**Class: CSE Zeta**  
**Roll No.: 2211CS010547**

5. State the quadrants in which the following points are situated:

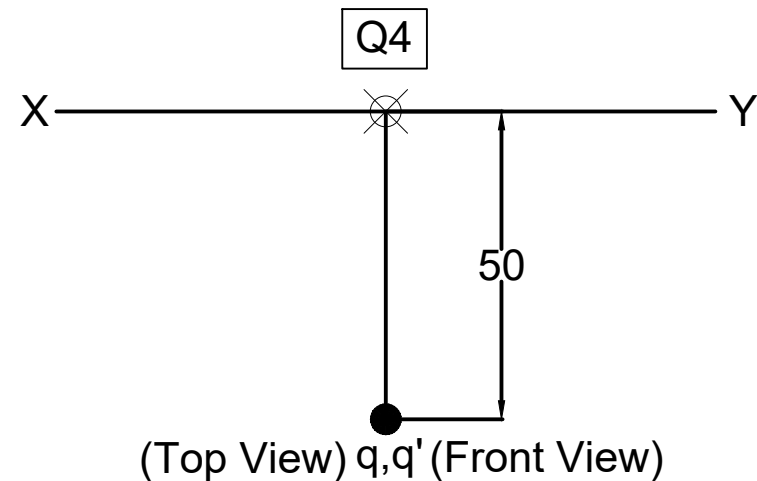
(a) A point P; its top view is 40 mm above XY ; the front view, 20 mm below the top view.



**Name: Subhapreet Patro**  
**Class: CSE Zeta**  
**Roll No.: 2211CS010547**

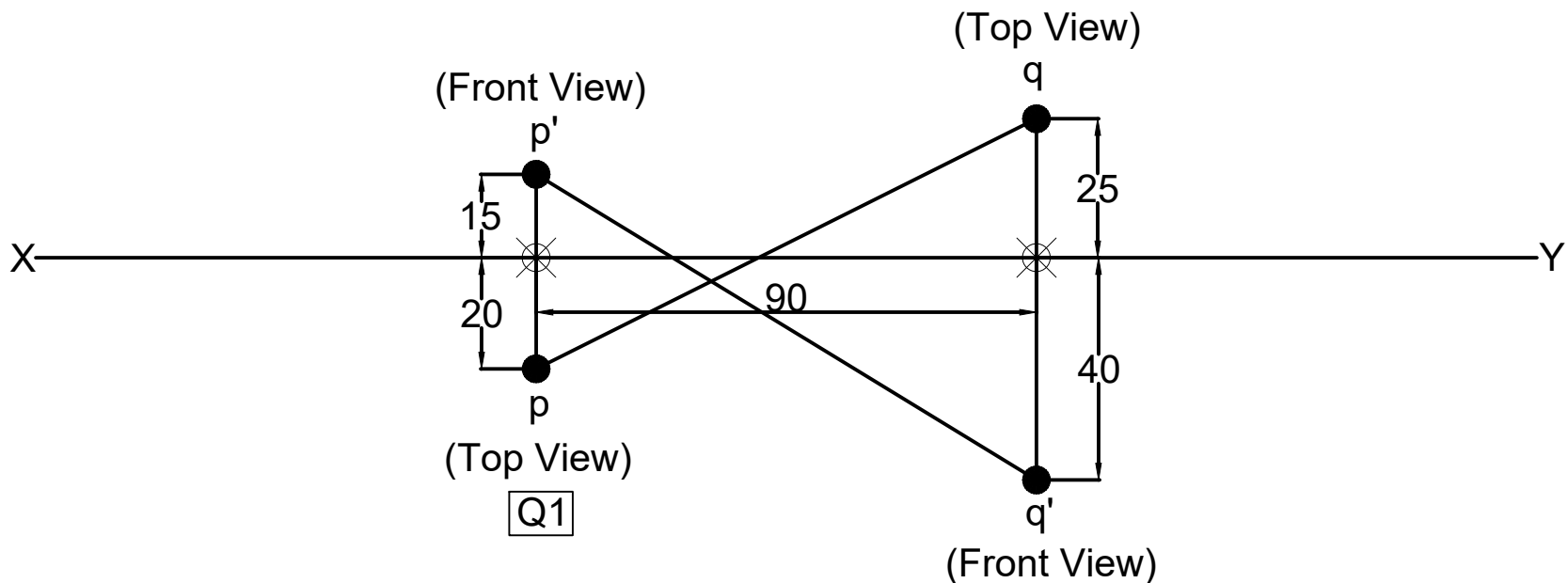
(b) A point Q, its projections coincide with each other 50 mm below XY.

**Note: All Dimensions are in mm**



6. A point P is 15 mm above the H.P. and 20 mm in front of the V.P. Another point Q is 25 mm behind the V.P. and 40 mm below the H.P. Draw projections of P and Q keeping the distance between their projectors equal to 90 mm. Draw straight lines joining (i) their top views and (ii) their front views.

**Note: All Dimensions are in mm**



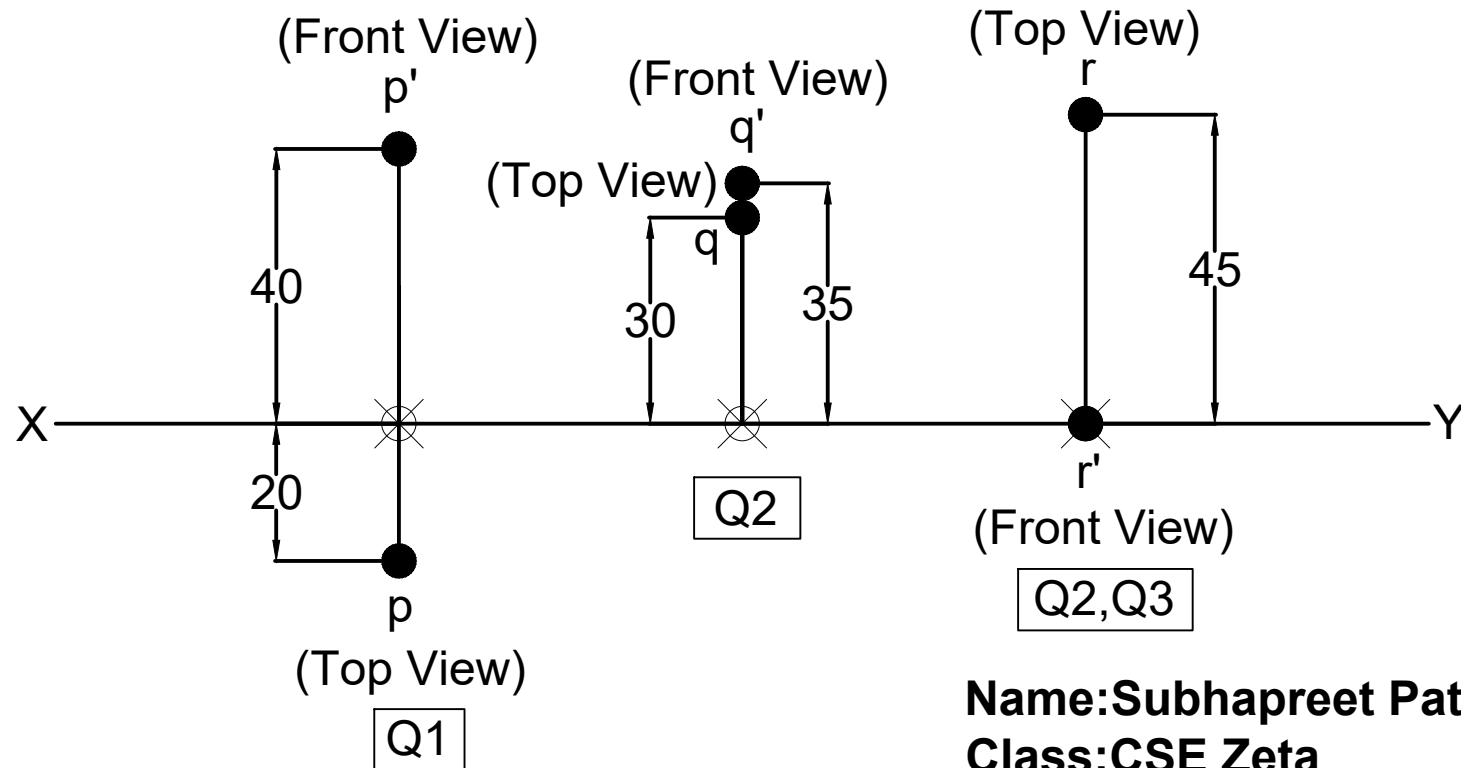
Q1

Q3

**Name: Subhapreet Patro**  
**Class: CSE Zeta**  
**Roll No.: 2211CS010547**

7. Determine the projections of the points P, Q and R when
- (i) The plan of p is 20 mm below XY & p' is 40 mm above H.P.
  - (ii) The plan of q is 30 mm above XY & q' is 35mm above H.P.
  - (iii) The elevation of R is on XY & the point r is 45mm behind V.P.
- (Hint: Plan means top view and Elevation means front view)

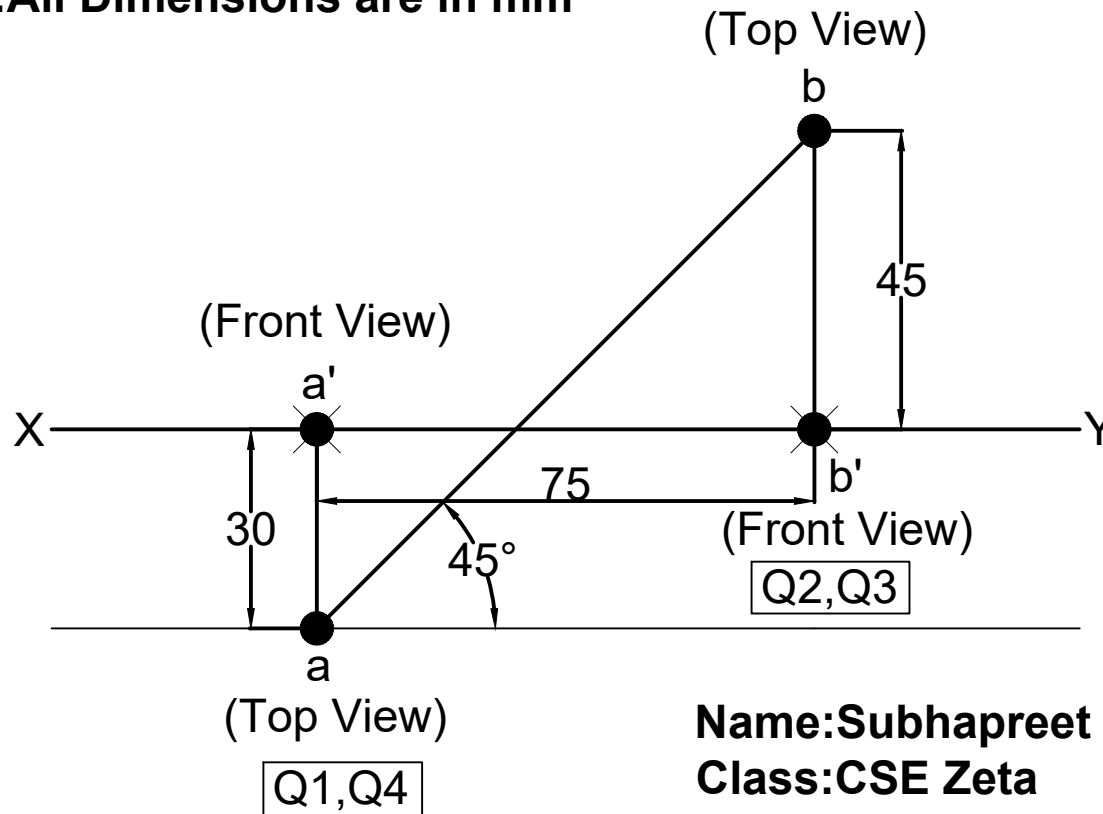
**Note: All Dimensions are in mm**



**Name: Subhapreet Patro**  
**Class: CSE Zeta**  
**Roll No.: 2211CS010547**

8. The points A and B are in the HP. The point A is 30 mm in front of VP. The distance between their projectors is 75 mm and the line joining their plans makes an angle of 45 degree with XY. Find the distance of the point B from the V.P.

**Note: All Dimensions are in mm**



**Name: Subhapreet Patro**  
**Class: CSE Zeta**  
**Roll No.: 2211CS010547**