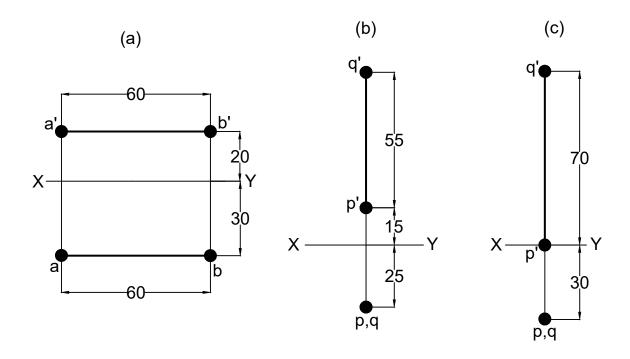
- 1. (a) A 60 mm long line AB is parallel to both the H.P. and the V.P. It is 20 mm above the H.P. and 30 mm in front of the V.P. Draw its projections.
- (b) A 55 mm long line PQ is perpendicular to the H.P. and 25 mm in front of the V.P. Draw its projections when one end of the line is 15 mm above the H.P.
- (c) A 70 mm long line PQ is perpendicular to the H.P. and 30 mm in front of the V.P. End P of the line is on the H.P. Draw its projections.

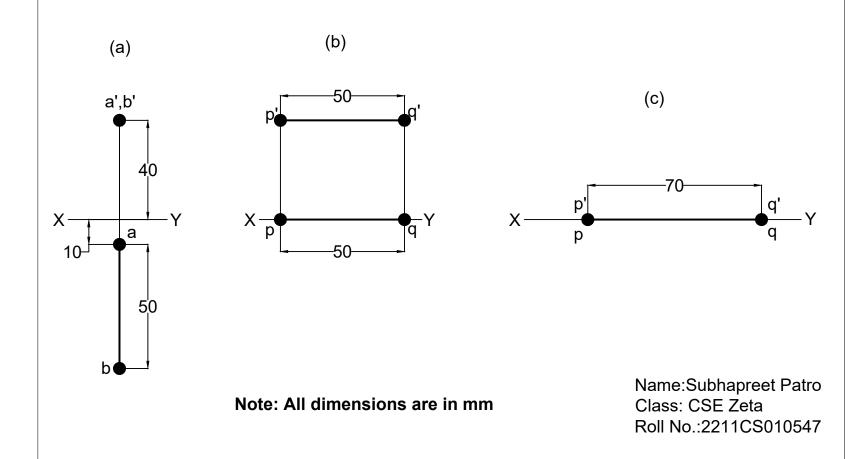


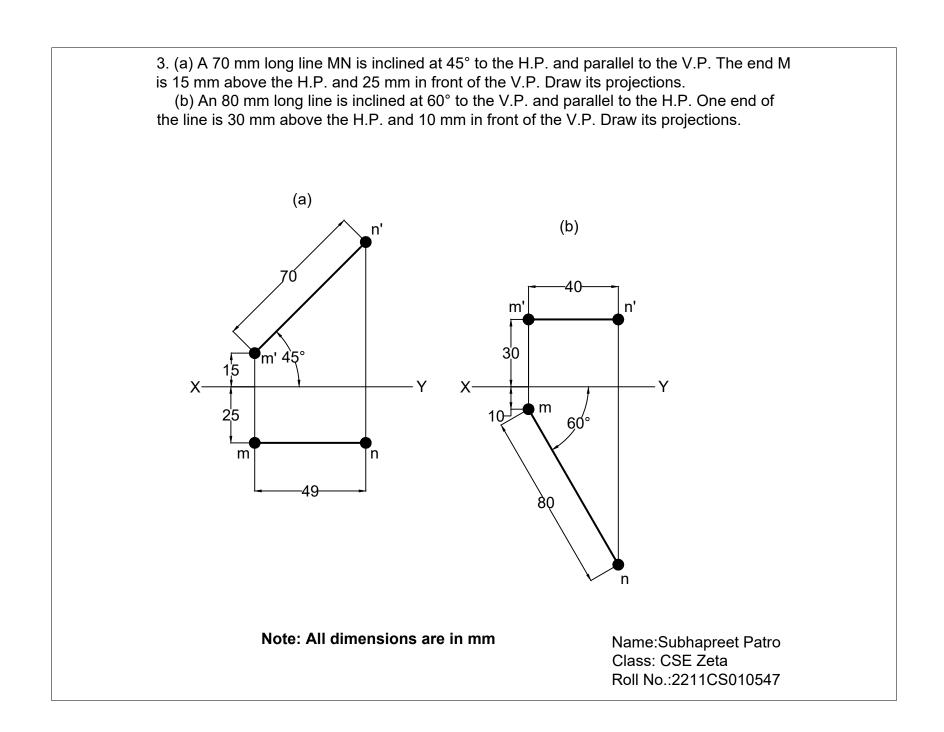
Note: All dimensions are in mm

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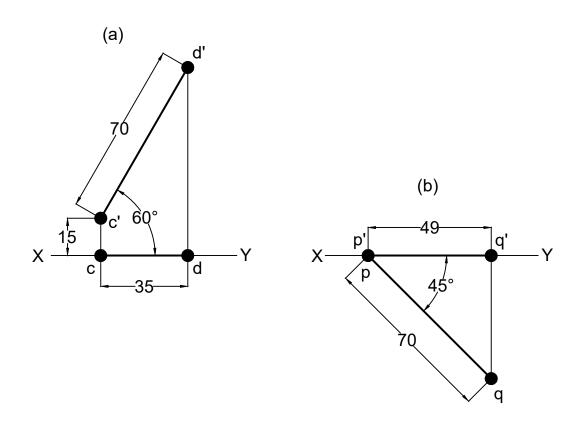
- 2. (a) A 50 mm long line AB is perpendicular to the V.P. and 40 mm above the H.P. One end of the line is 10 mm in front of the V.P. Draw its projections.
- (b) A 50 mm long line situated in the V.P. is parallel to the H.P. The line is at a distance of 40 mm from the H.P. Draw its projections.
  - (c) A 70 mm long line lies both on the H.P. and the V.P. Draw its projections.





4. (a) A 70 mm long line CD lying in the V.P. is inclined at 60° to the H.P. One end of the line 15 mm above the H.P. Draw its projections.

(b) A 70 mm long line PQ lying in the H.P. is inclined at 45° to the V.P. End P of the line is in the V.P. Draw its projections.



Note: All dimensions are in mm

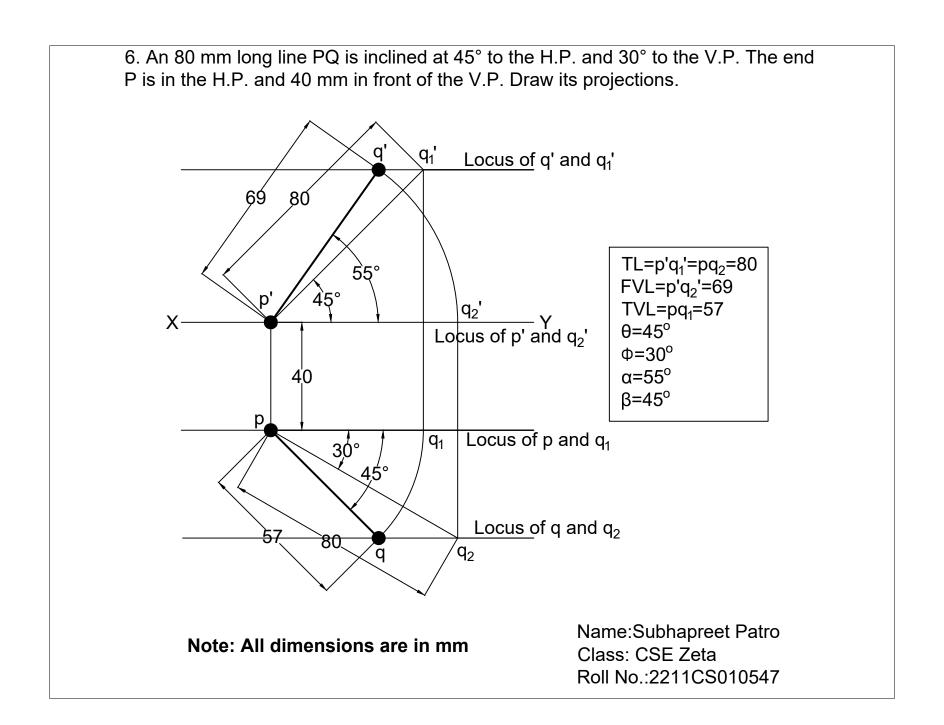
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5. (a) A 70 mm long line has an end 40 mm above the H.P. and 20 mm in front of the V.P. The front view of the line is a point. Draw its projections and determine true inclination with the reference planes. (b) A 70 mm long line AB is parallel to the V.P. and inclined to the H.P. The end A is 20 mm above the H.P. and 30 mm in front of the V.P. The top view of the line measures 45 mm. Draw its projections. (c) The front view of an 80 mm long line PQ measures 50 mm. The line lies in the H.P. such that one end is 30 mm in front of the V.P. Draw the projections of the line and find its inclination with the V.P. (b) (a) a',b' (c)

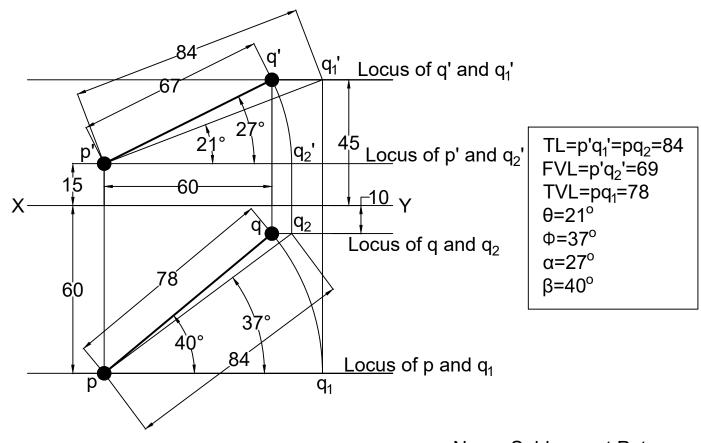
Note: All dimensions are in mm

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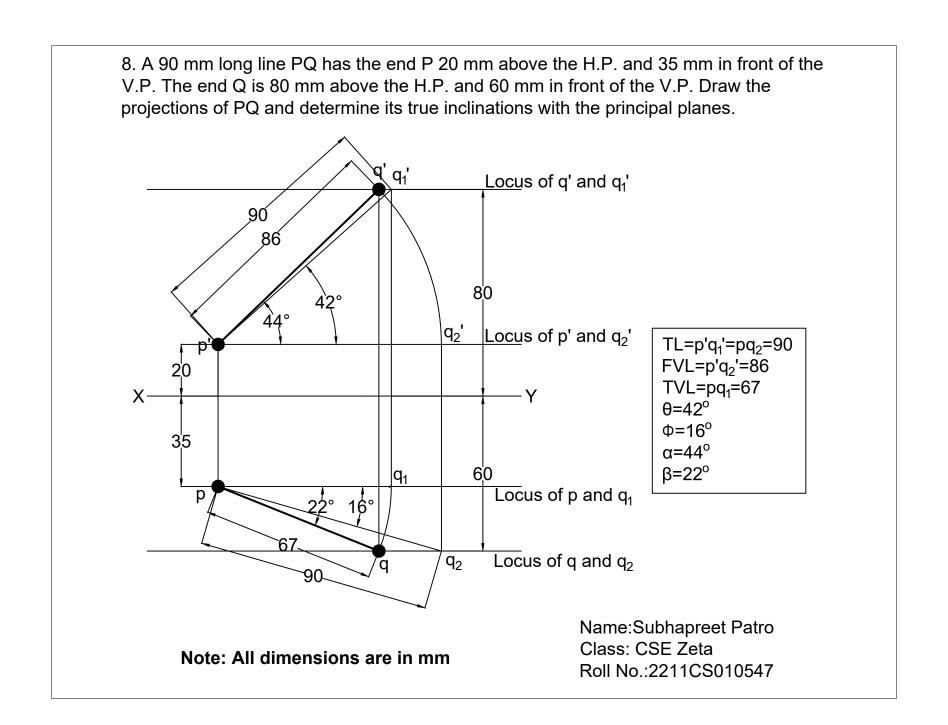
7. A straight line PQ has its end P 15 mm above the H.P. and 60 mm in front of the V.P. The end Q is 45 mm above the H.P. and 10 mm in front of the V.P. If the end projectors of the line are 60 mm apart, draw its projections. Determine the true length and true inclinations of the line with the principal planes.



Note: All dimensions are in mm

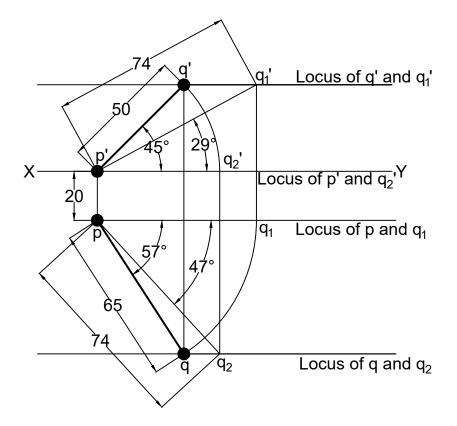
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9. The front and top views of a straight line PQ measures 50 mm and 65 mm, respectively. The point P is on the H.P. and 20 mm in front of the V.P. The front view of the line is inclined at 45° to the reference line. Determine the true length of PQ and its true inclinations with the reference planes.

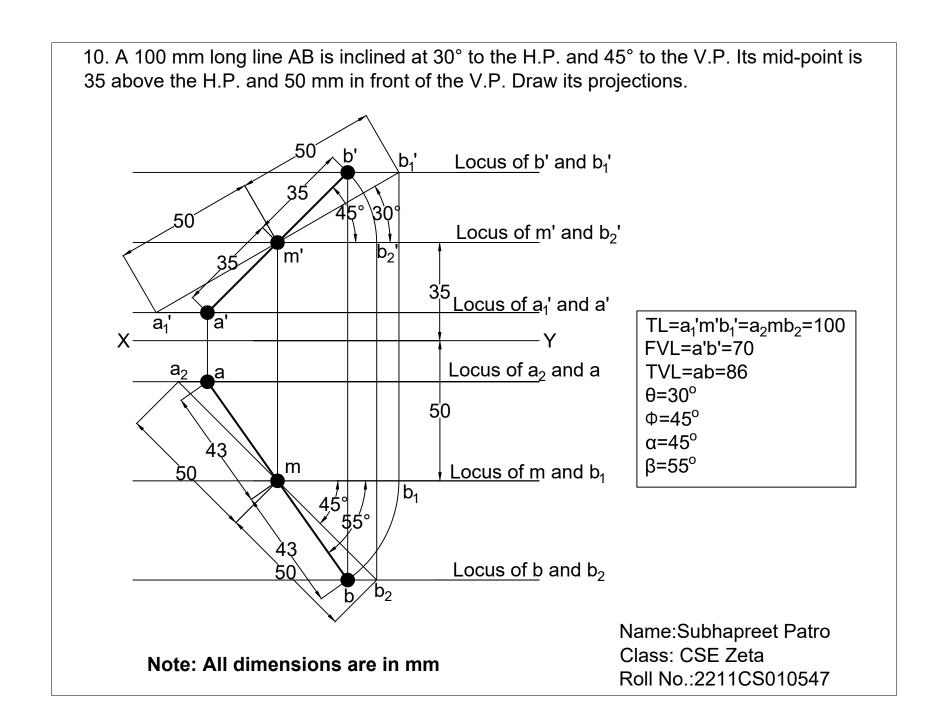


TL=p'q<sub>1</sub>'=pq<sub>2</sub>=74 FVL=p'q<sub>2</sub>'=50 TVL=pq<sub>1</sub>=65  $\theta$ =29°  $\phi$ =47°  $\alpha$ =45°  $\beta$ =57°

Note: All dimensions are in mm

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