

Assignment 5

Projection of Straight Lines

1. Draw the projections of a line AB 40 mm long when it is parallel to both the HP and the VP. The line is 20 mm from both the planes.
2. Draw the projections of a straight line CD 70 mm long when it is parallel to both HP and VP. It is 25 mm in front of VP and 30 mm above HP.
3. A vertical line AB 40 mm long is 20 mm in front of the VP, the lower end B being in the HP. Draw its projections.
4. A line of length 70 mm is parallel and 20 mm in front of VP. It is also inclined at 45° to HP and one end is on it. Draw its projections.
5. A line 40 mm long is parallel to the VP and inclined at 30° to the HP. The end nearer to the HP is 15 mm above the HP and 15 mm in front of the VP. Draw its projections.
6. A line PQ 50 mm long is parallel to the HP and inclined at 45° to the VP. The end nearer to the VP is 10 mm in front of VP and 25 mm above HP. Draw its projections.
7. A straight line AB 70 mm long has one of its ends 25 mm in front of VP and 20 mm above HP. The line is inclined at 30° to HP and 50° to VP. Draw its projections.
8. Draw the projections of a straight line AB 80 mm long inclined at 45° to the HP and 30° to the VP with the end A in the HP and the end B in the VP.