

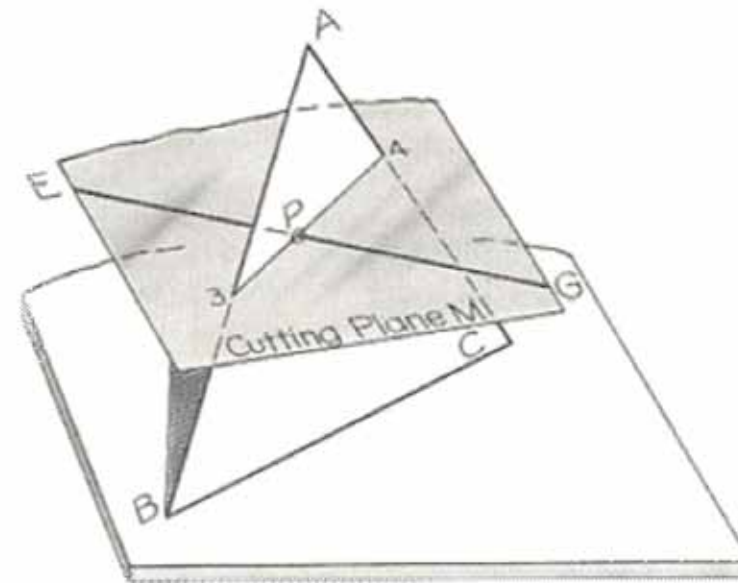
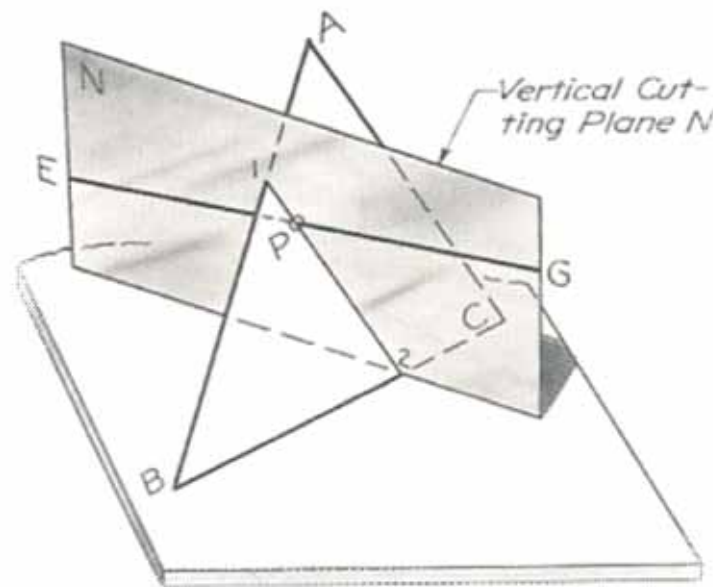
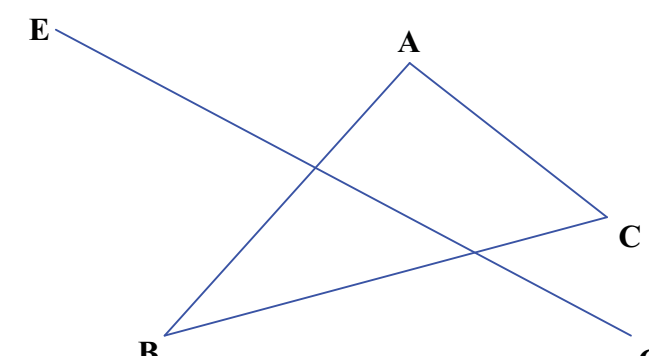
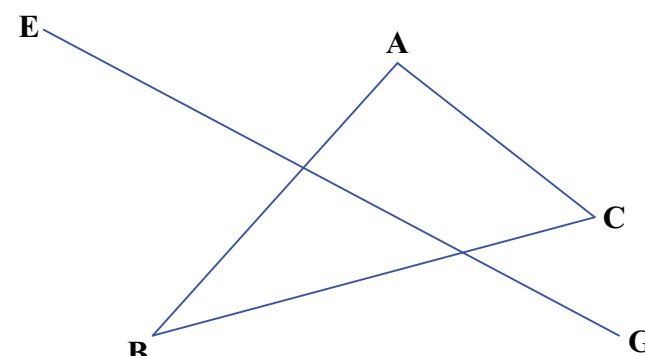
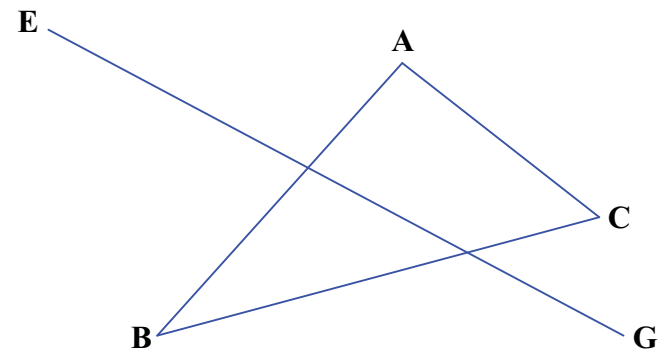
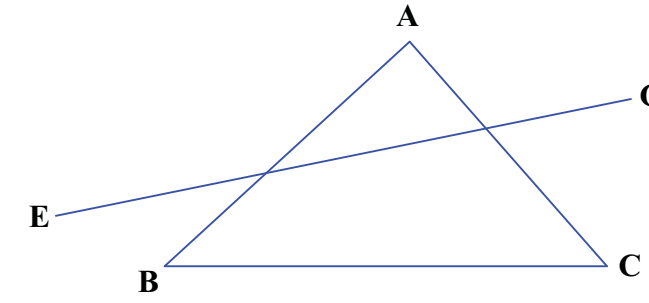
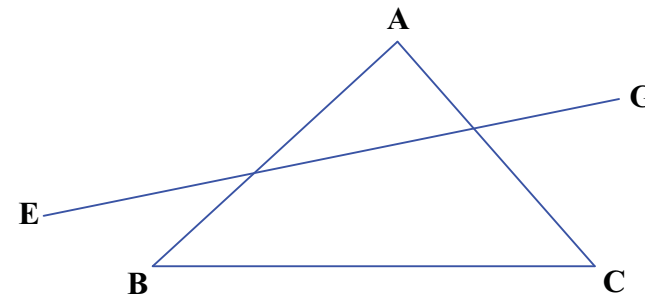
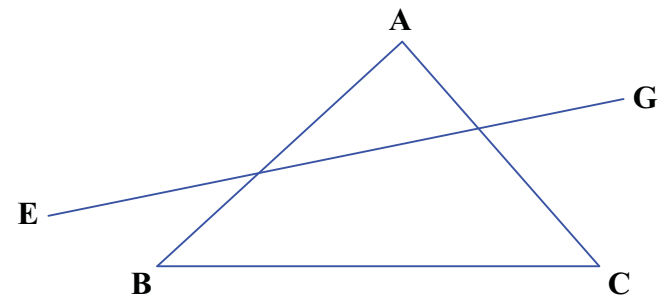


The 3D graphic on the left shows a number of arrows piercing an archery target board.

The projections of three points A, B and C on the archery board are given in the drawing below. The direction of one of the arrows EG is also given.

Find the point of intersection P of the line EG with the plane ABC using:

- (i) A vertical cutting plane N that contains the line EG
- (ii) A cutting plane M perpendicular to the V.P. that contains the line EG
- (iii) An auxiliary view showing the plane as an edge



**Key Principles:**

- (i) The vertical cutting plane N appears as an edge view in plan
- (ii) The cutting plane M appears as an edge view in elevation
- (iii) An auxiliary view showing the plane ABC as an edge gives the point of intersection