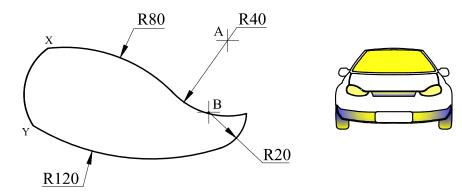


2. A detailed drawing of a car headlamp is given below. Using the given start lines and dimensions, draw the headlamp showing clearly the construction to obtain the centres of the arcs. Show points of tangency.

12 marks

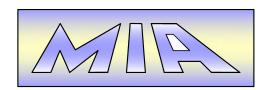




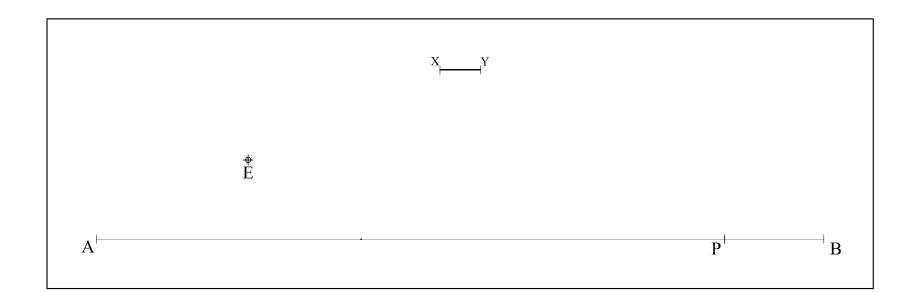
3. The sign of a beauty salon, named after its owner, is shown at the side. Details of the sign are given below.

On the start line AB shown at the bottom, draw the sign to the given dimensions.

- Notes: a. Start by dividing line AB into 11 equal divisions by construction.
 - b. The 60° angle at A, the 30° angle at E and the 45° angle at P must be constructed using the compass.
 - c. Use the protractor for the remaining angles.

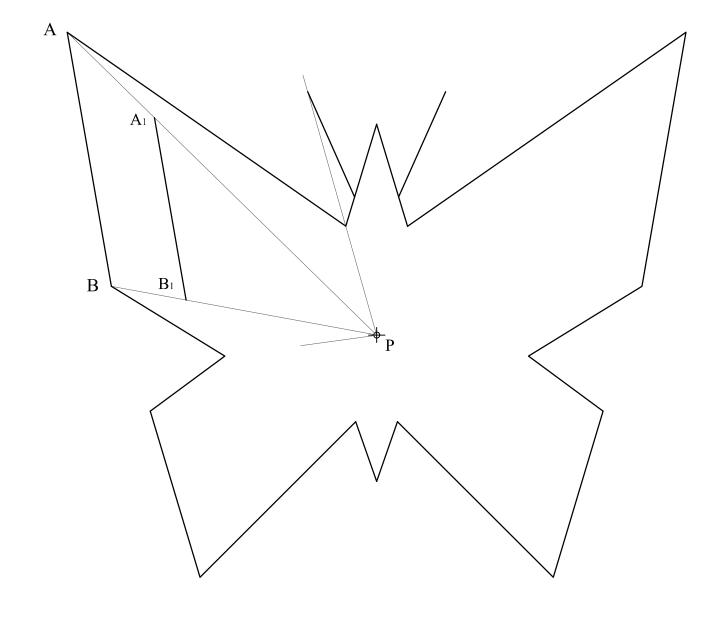


18 marks



6. A simplified drawing of a butterfly is given. Line AB is geometrically reduced to A₁B₁. Complete the construction to reduce the butterfly using point P as the pole.

12 marks

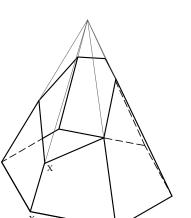


- 7. An industrial lamp-shade is fixed to the inside of a slanting ceiling.
- The shade has the shape of a truncated hexagonal pyramid which is shown in the pictorial view.

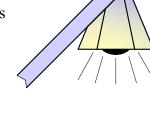
A Front Elevation and an incomplete Plan of the shade are given below.

- a. Complete the Plan.
- b. Construct the Development, using the given centre O₁.

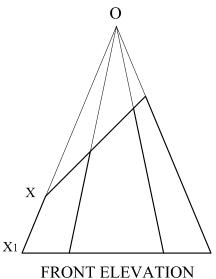
Note: Make the joint line along XX1.

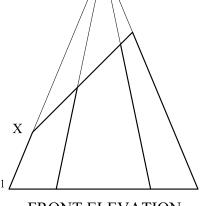


18 marks



PICTORIAL VIEW





DEVELOPMENT

