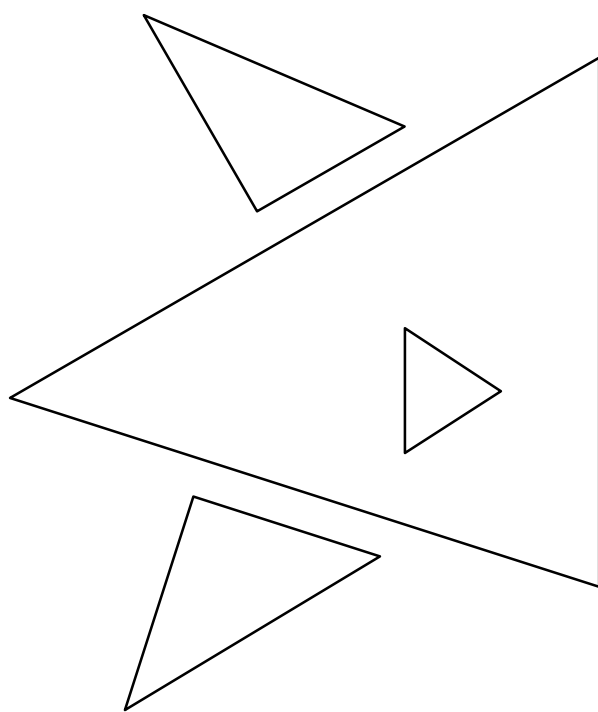
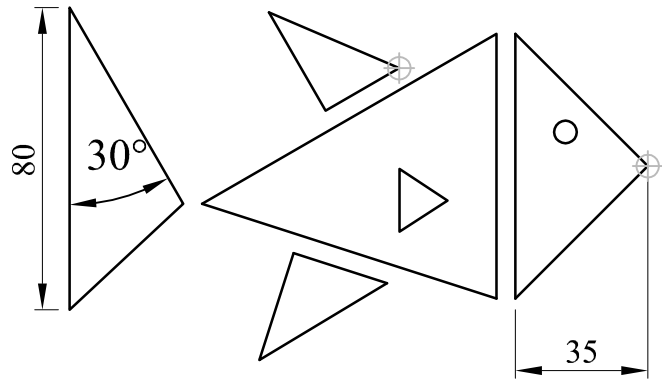


QUESTION No. 1

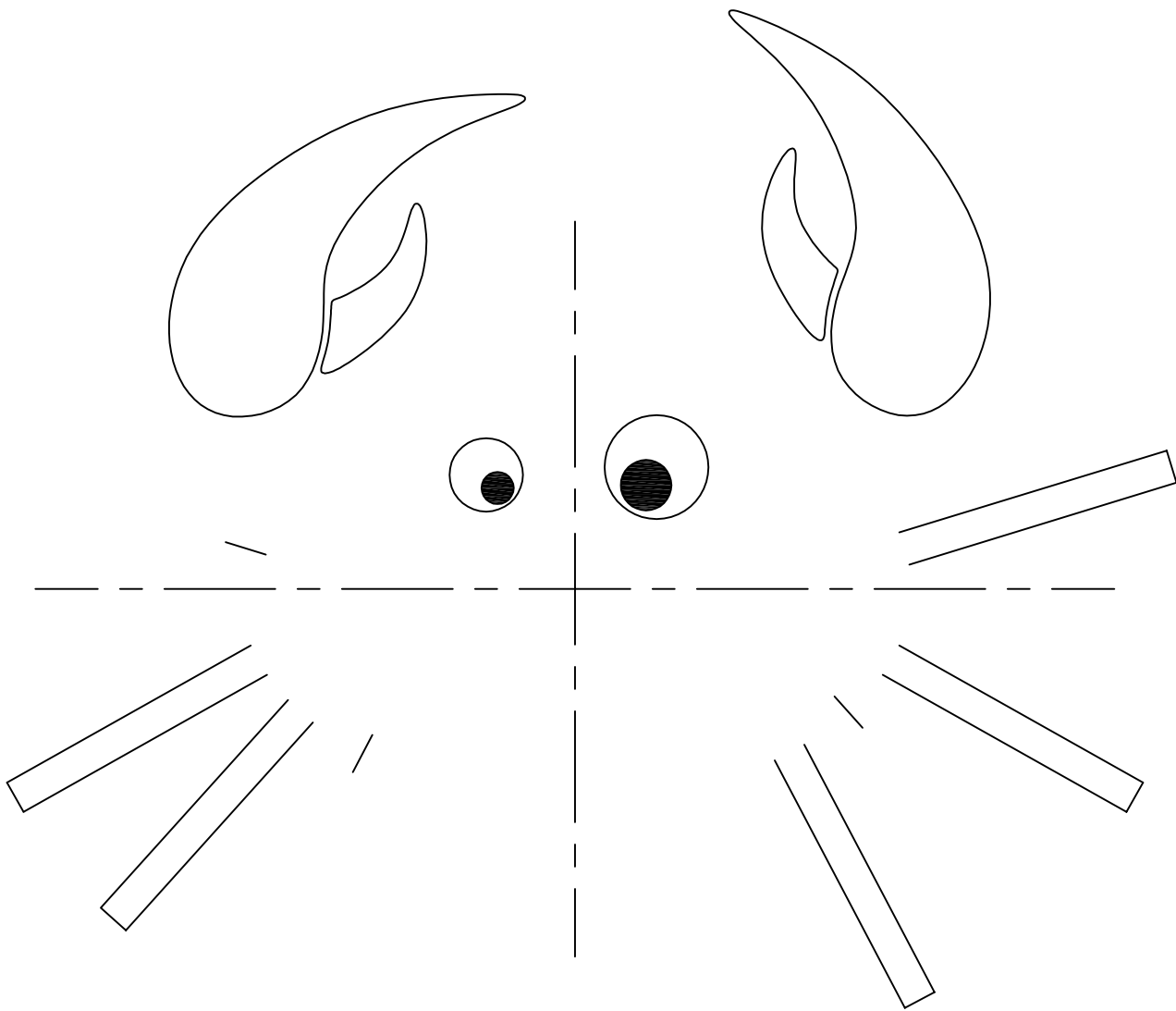
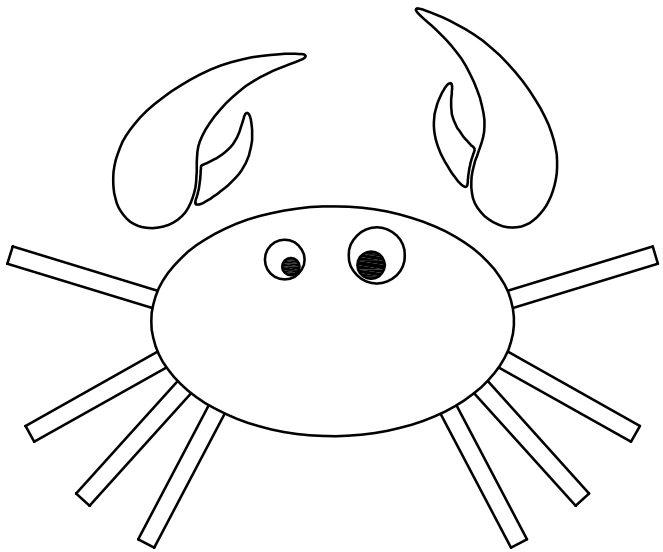
The diagram shown is the logo of Qajjenza fishing club. Complete the drawing by constructing:

- a. The fish's head on the starting point provided, with perimeter 169mm and altitude 35mm. This triangle is an isosceles triangle.
  - b. The tail with base 80mm, base angle 30° and perimeter of 181mm.
- Leave all construction for your drawing.  
(16 marks)



QUESTION No. 2

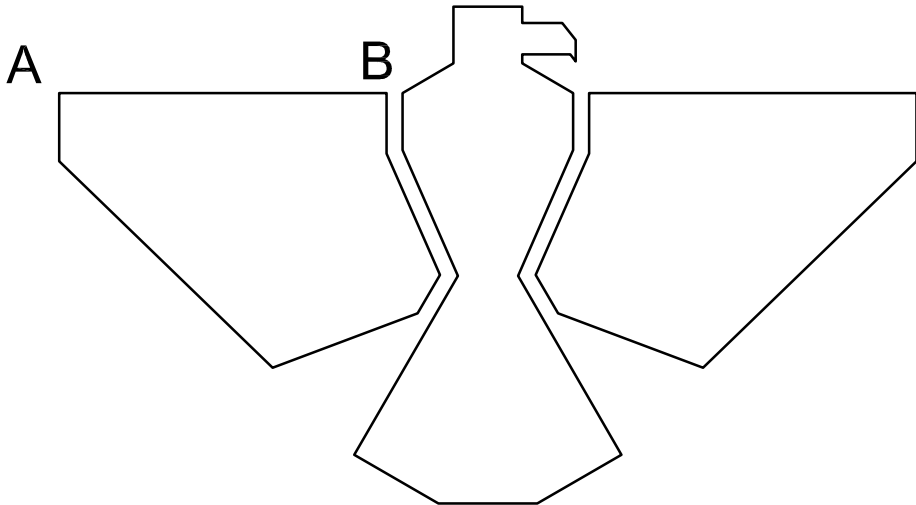
The logo of a restaurant in B'Bugia is shown. Complete the logo on the start lines provided by drawing an ellipse with major axis 96mm and minor axis 61mm. The crab legs are normals to the ellipse at the points indicated, 50mm long and have a thickness of 6mm. Complete the three missing legs. Leave all construction for your drawing.  
(16 marks)



QUESTION No. 3

Bird Club Ghaxaq have decided to enlarge the emblem on their door sign to be more visible. Enlarge it so that line AB becomes A'B'. State the scale by which the logo has been enlarged. (16 marks)

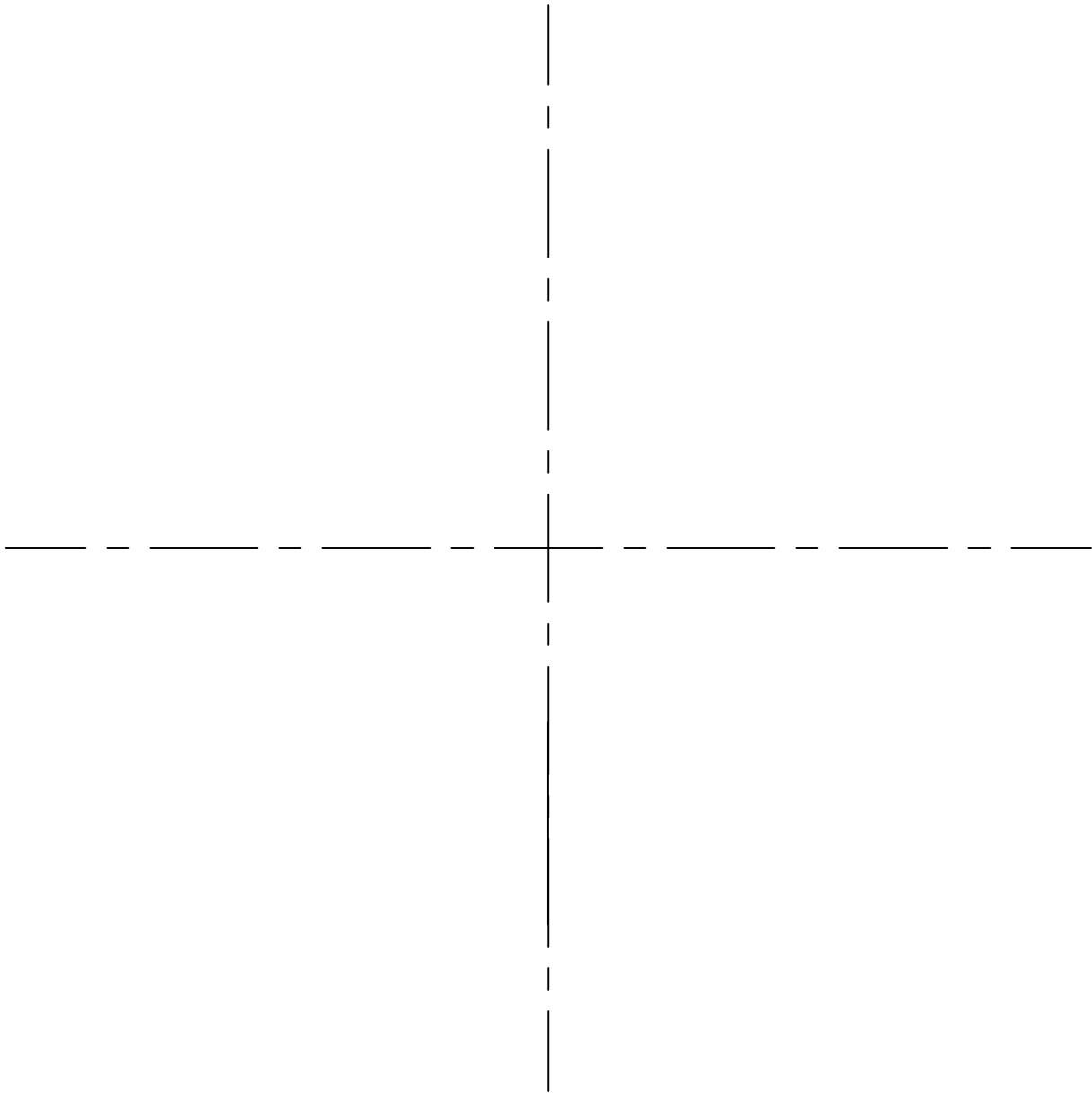
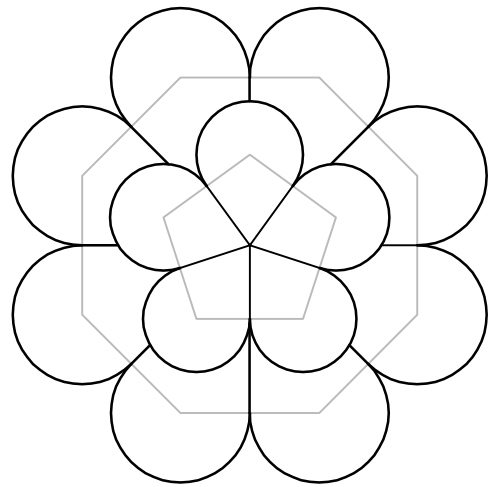
A' \_\_\_\_\_ B'



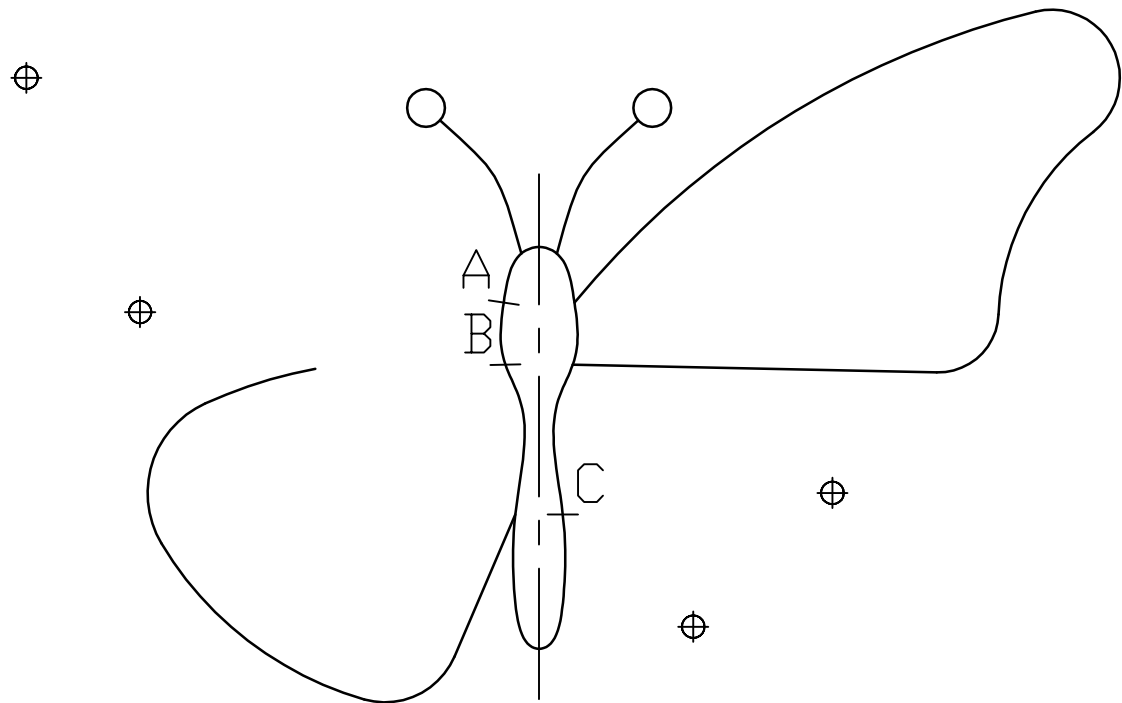
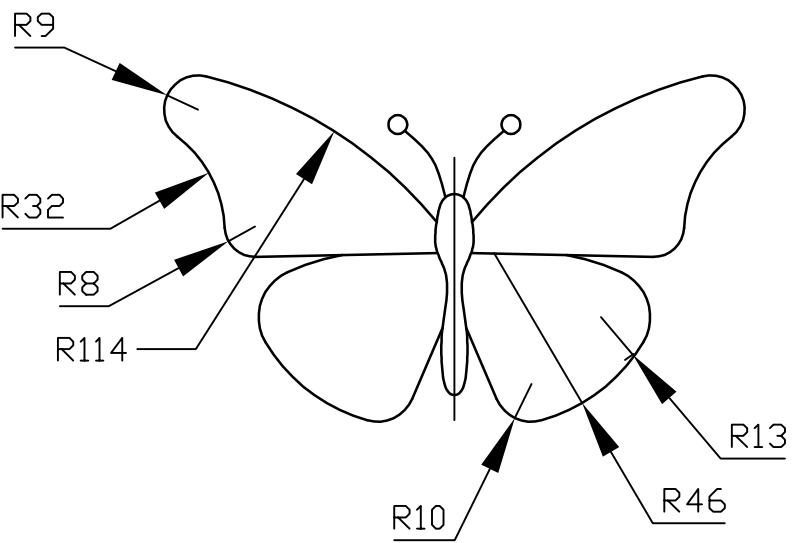
SCALE: \_\_\_\_\_



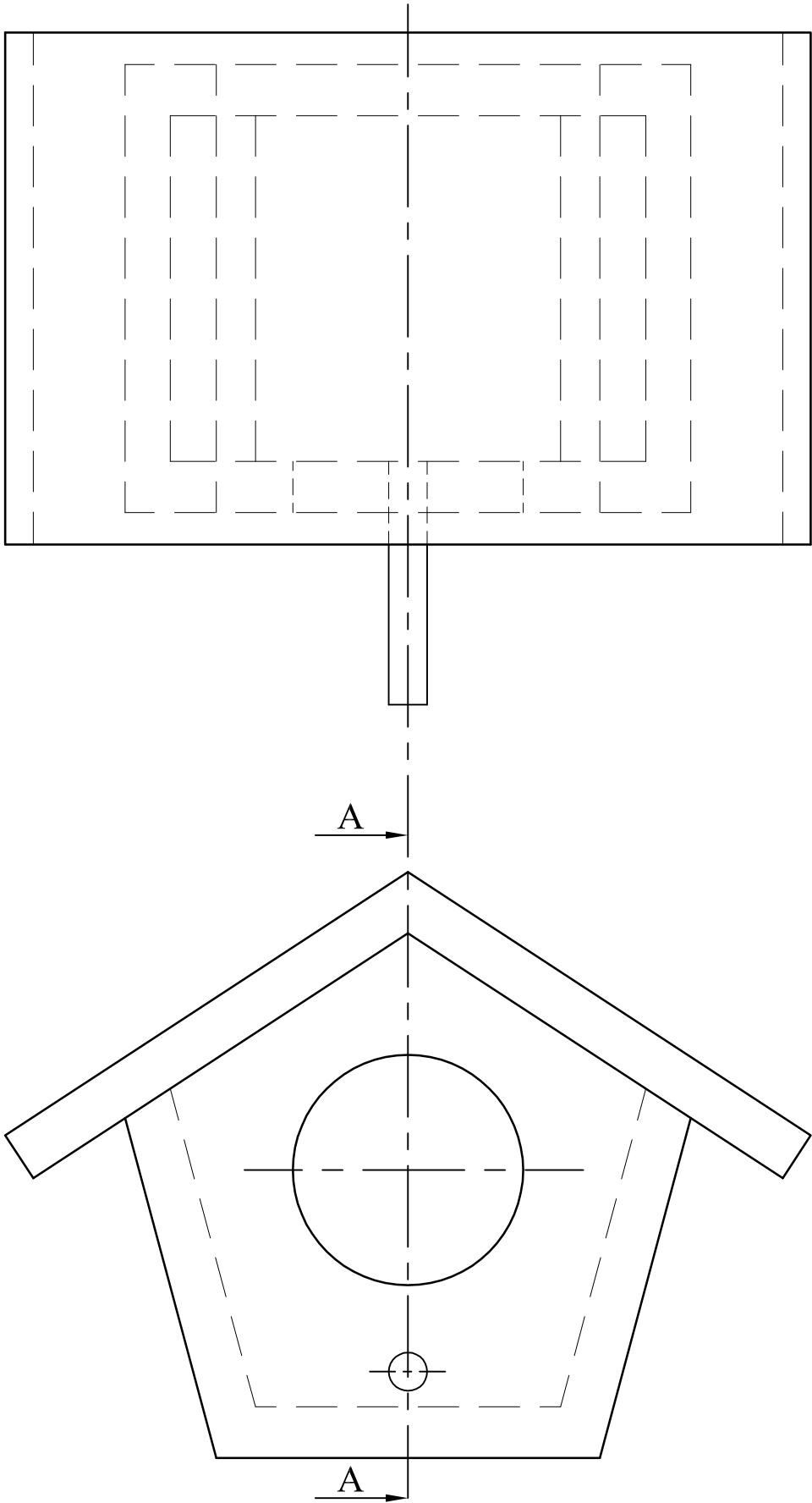
**QUESTION No. 4**  
 Zurrieq garden center needs a new logo. Draw the logo shown on the given center lines by drawing a pentagon in a circle Ø60 and an octagon in a circle Ø120.  
 (16 marks)



**QUESTION No. 5**  
 A Butterfly garden has just opened in Kirkop. The company letterhead is made up of a butterfly full of circles touching . Complete the butterfly. Note that:  
 1. the circle with radius 114mm goes through point A,  
 2. the lines touching the circles of radii 8mm and 10mm are tangents and go through points B and C respectively.  
 3. the bottom wing has a missing dimension which is to be estimated. Leave all constructions for your drawing. (16 marks)



Q. 6: Complete the orthographic projection by drawing a sectional end elevation of the bird house. Label the three views and draw the symbol of the projection used. (20 marks)



SCALE 1:1

ORTHOGRAPHIC PROJECTION SYMBOL

Sheet 4 of 4

