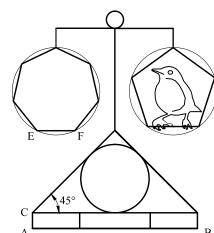
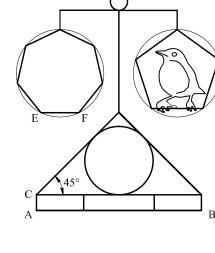


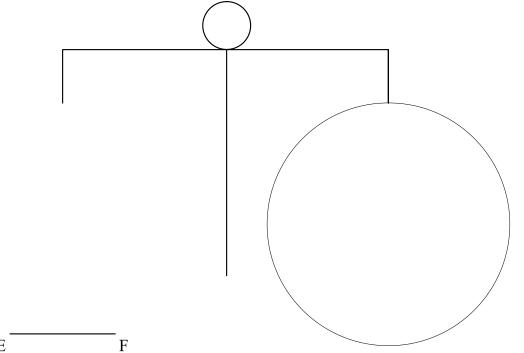
- 2. The drawing at the side shows a gadget used in bird cages. Using the given starting lines, make a drawing similar to the one shown by following these instructions:
- a) Divide line AB in the ratio of 2:3:2 and draw the two lines within the rectangle.
- b) Construct the angle of 45° at C using the compass and complete the isosceles triangle using the set-square.
- c) Inscribe a circle in the triangle.
- d) Construct the regular pentagon in the circle provided.
- e) Construct the regular heptagon with line EF as the base.

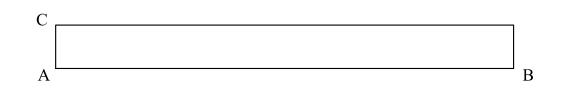
Note: Do not draw the bird.

18 marks









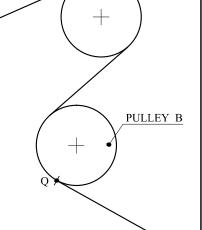
3. The figure at the side shows part of a system of pulleys with a belt. The arrangement consists of three tangents.

Both pulleys have the same diameter.

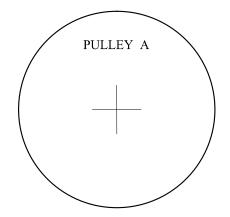
Draw a similar arrangement on pulleys A and B given below using the following instructions:

- a) Construct a tangent from point P to pulley A.
- b) Construct a transverse (internal) tangent between pulleys A and B.

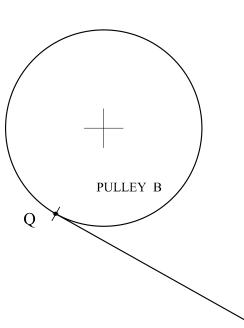
Note: The tangent at Q is already drawn.



PULLEY A



12 marks

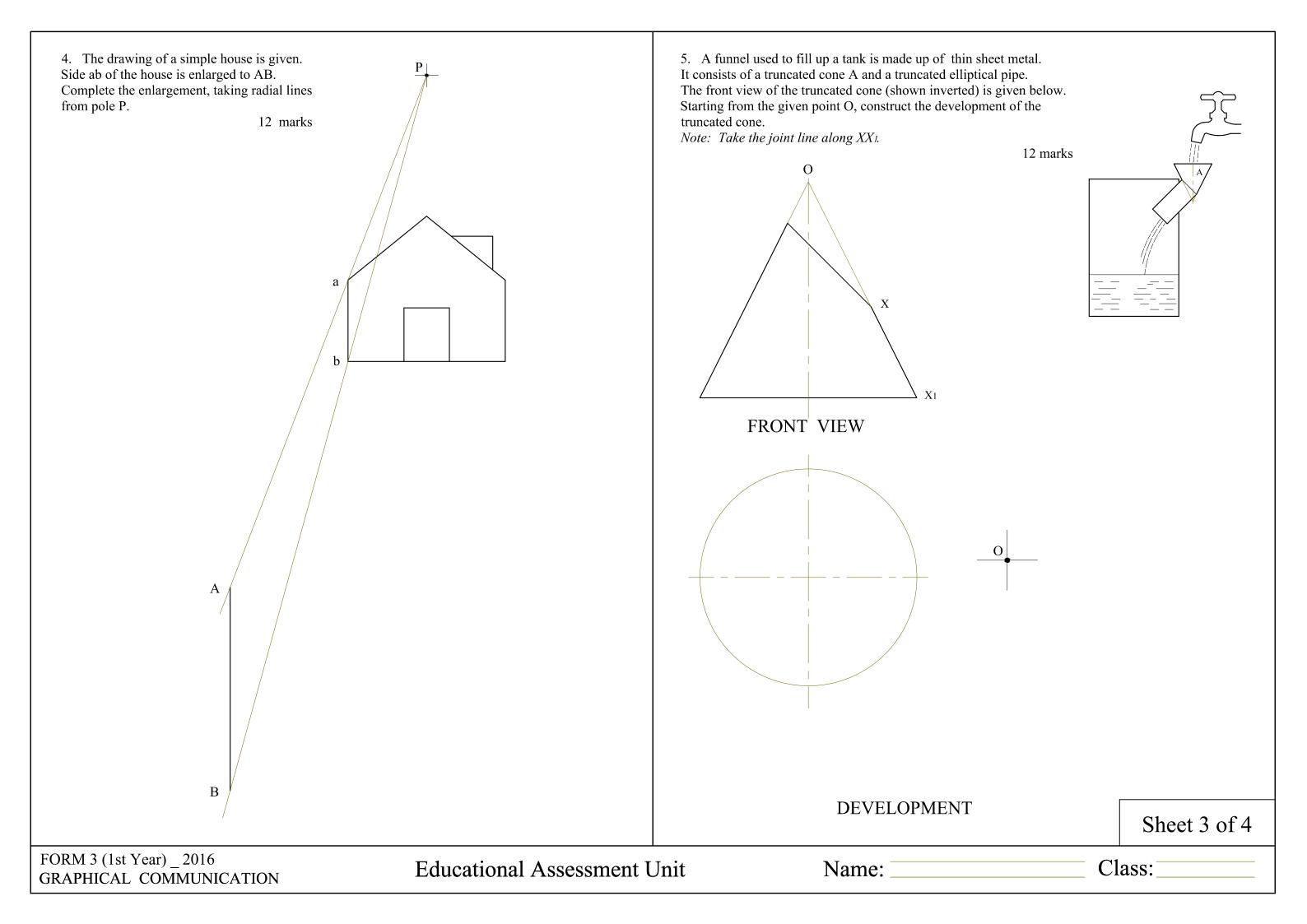


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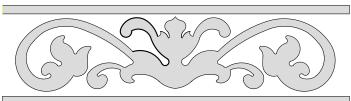


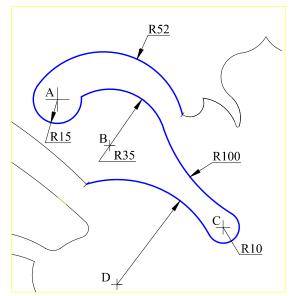
6. The design shown below is part of the marble floor of the Cathedral at Mdina. An enlarged dimensioned part of the design is also given at the side.

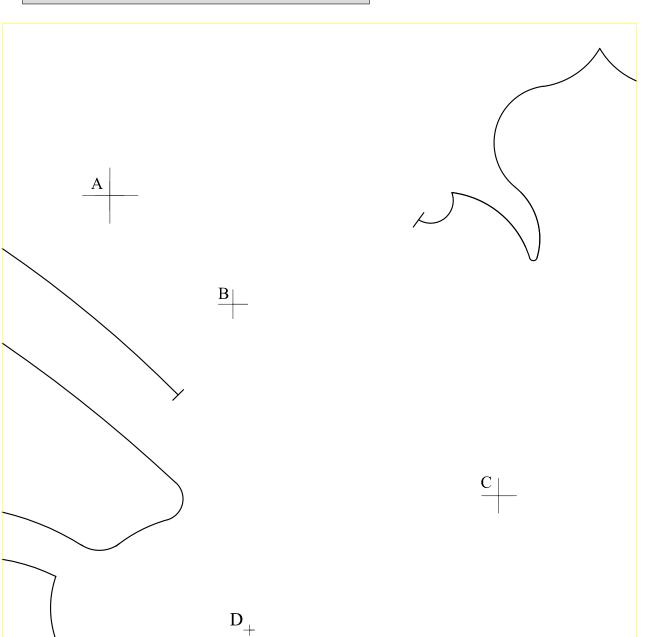
Complete the missing part of a similar design shown at the bottom to the given dimensions, showing the construction for obtaining the centre of the arcs. Show two points of tangency.

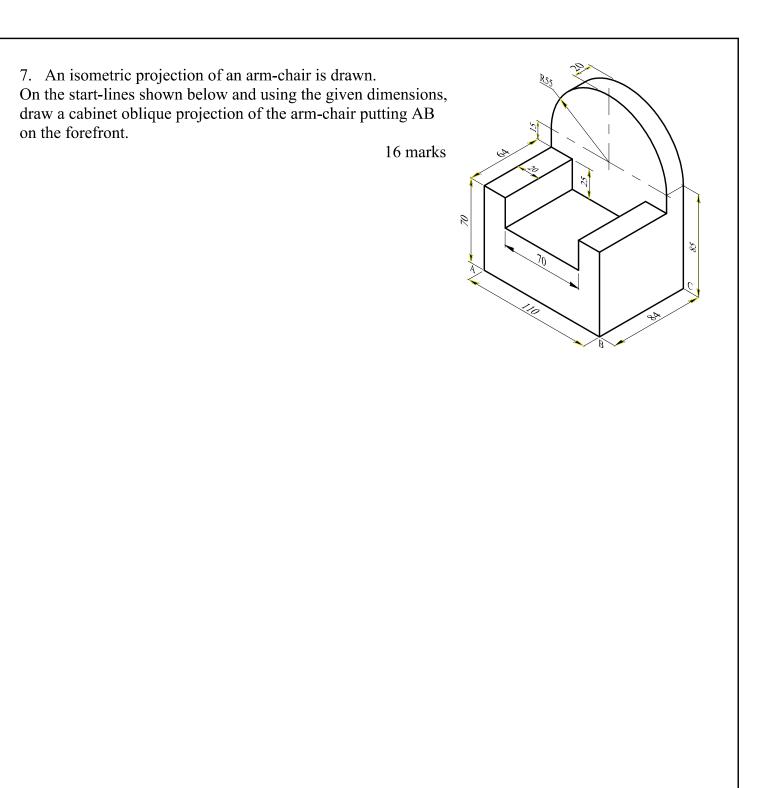
Note: It is advisable to start by drawing the arcs with centres A, B, C and D.

16 marks









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A

Name: Class:

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