Question 1. A drawing of a motor bike logo is shown below. By means of geometrical construction, line AB has been enlarged to A₁B₁.

Complete the construction to enlarge the whole drawing using centre P as the pole. *Notes:*

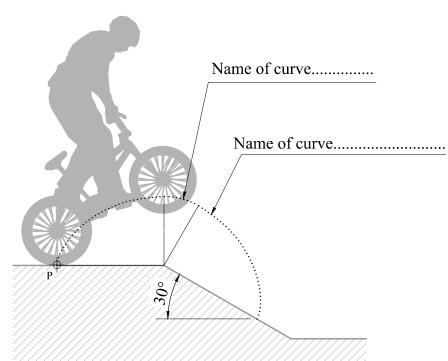
- a. The centres of the two arcs are marked Q and R.
- b. Construct the left-hand side of the logo and mirror copy (reflect) the right-hand side.

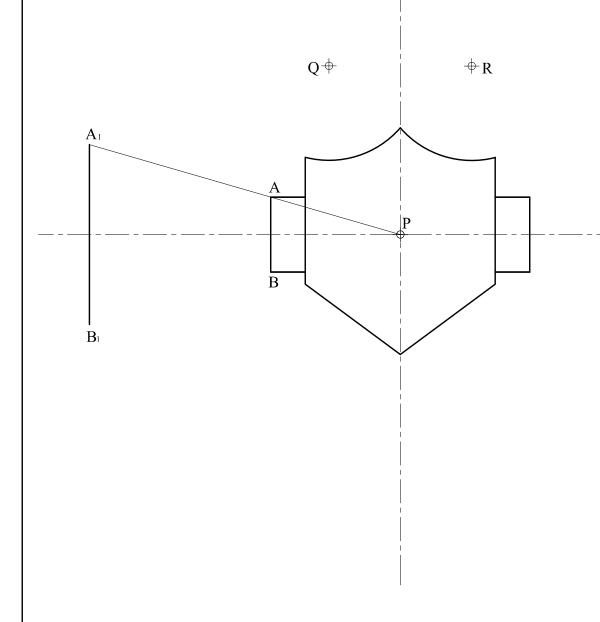
(10 marks)

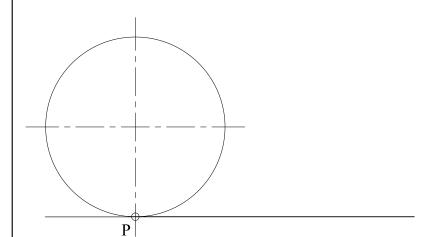
Question 2. The profile of a cyclist on a motocross bike is given on the right. Starting from the given position, the rear wheel is to turn forward for half a revolution on a horizontal platform and continue another half revolution down the slope without slipping. Using the given start lines below:

- a. Trace the locus of point P.
- b. State the name of the curves traced (in the spaces provided).

(14 marks)







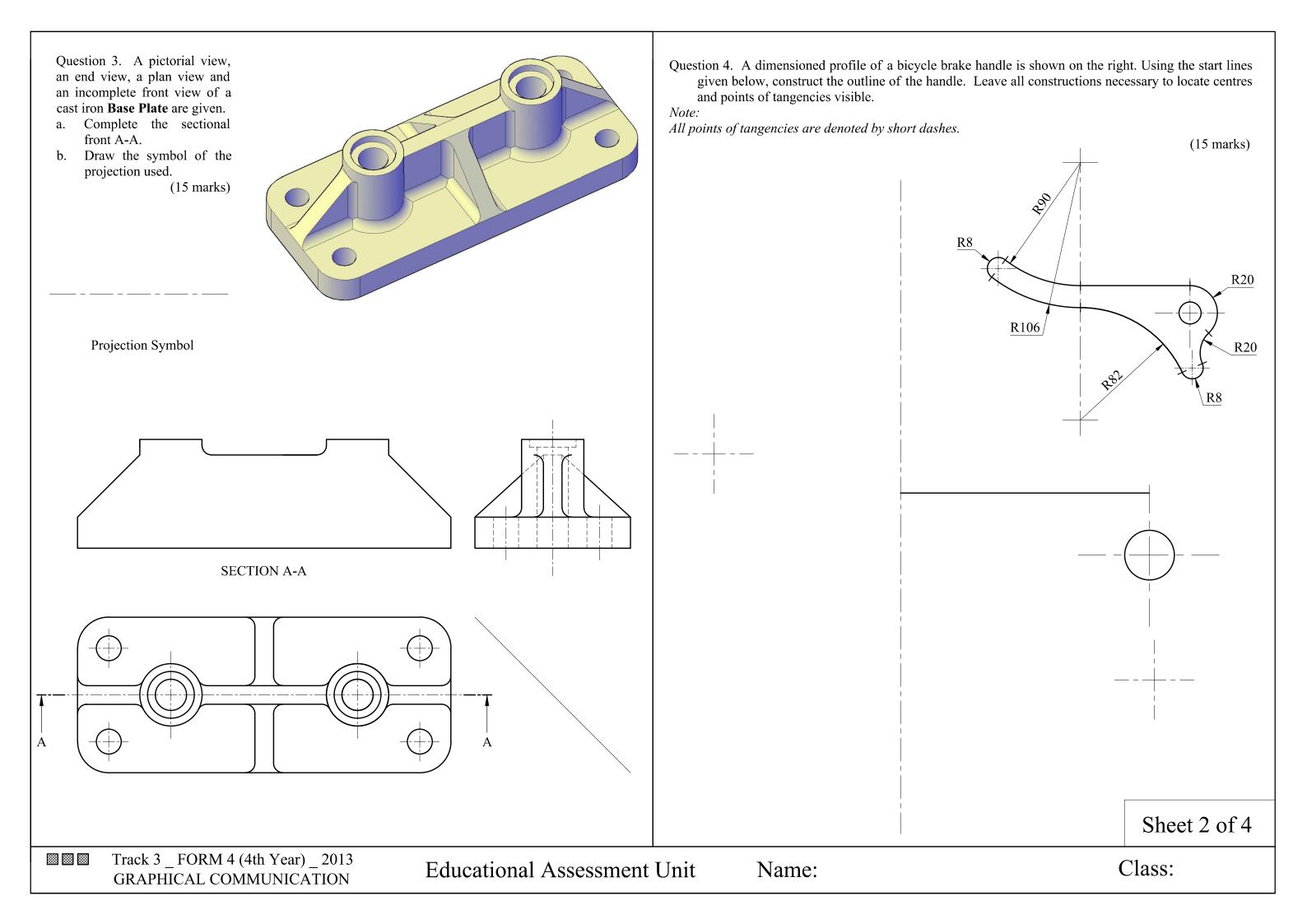
Sheet 1 of 4

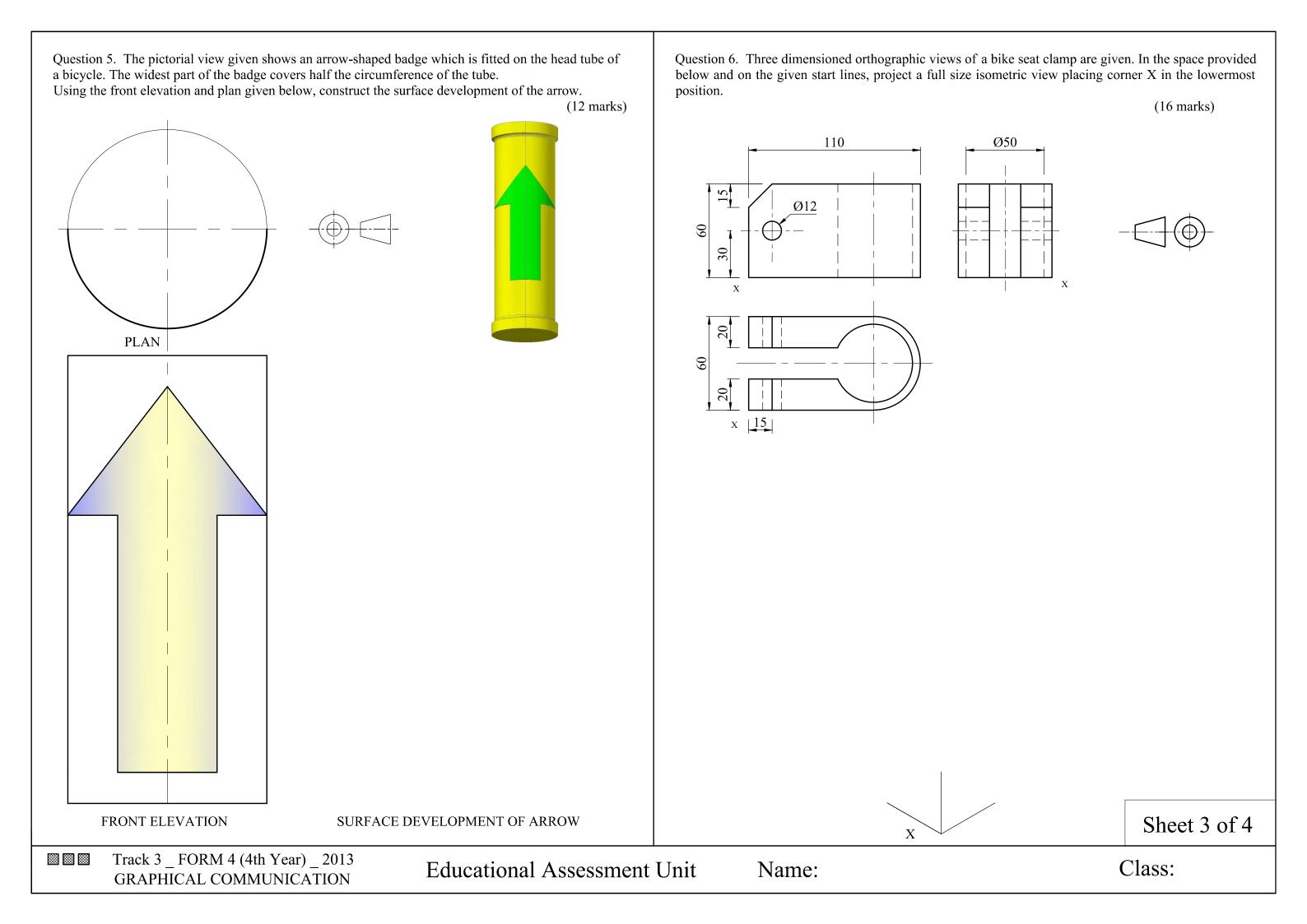
Track 3 FORM 4 (4th Year) 2013 GRAPHICAL COMMUNICATION

Educational Assessment Unit

Name:

Class:





Question 7. A complete planometric view of a student's room is given below. The length, width and height of the room is 12 units X 8 units. The start lines of a perspective view of the room are also given below. The vanishing point is indicated and the floor tiles and courses are numbered. Complete the **estimated single-point perspective view** by following the given steps:

- a. Complete the construction of the floor tiles (12 tiles x 12 tiles).
- b. Insert the furniture and the carpet (use the tiles and courses to determine the dimensions).
- c. Line in with a bold outline the visible tiles, carpet and furniture.

(18 marks)

