Question 1. A <u>SAFE CONDITION</u> sign is given below. This sign indicates a safety action to be taken to prevent or limit the damage caused by accidents at an industrial place of work.

- a. Colour the sign in accordance with approved recognised standards.
- b. Enlarge the push button given below by using the polar enlargement method.

## Notes:

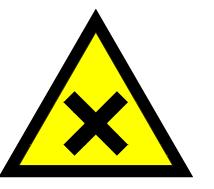
- *P* is the pole.
- The centerline of the enlarged push button is given.

(12 marks)

Question 2. A Hazard sign, to be placed at a building site, is given on the right. The sign is made by screen printing the triangular hardboard given below.

- a. Convert geometrically the area of the triangular hardboard into a square of equal area.
- b. Measure and state the side of the square.
- c. Determine graphically the area printed with yellow paint (shown shaded).

(14 marks)

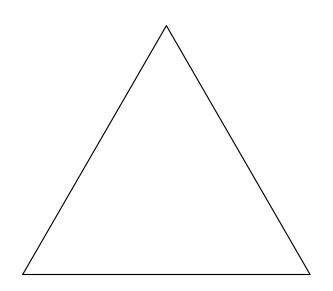


Question 1 a.

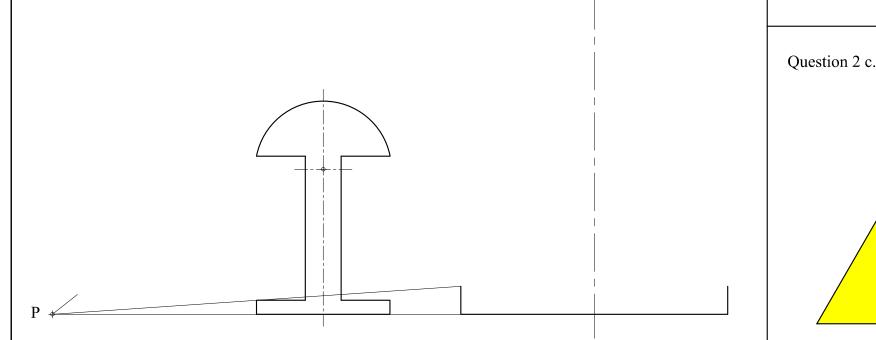
Question 1 b.



Question 2 a. & 2 b.



SIDE OF SQUARE.....mm



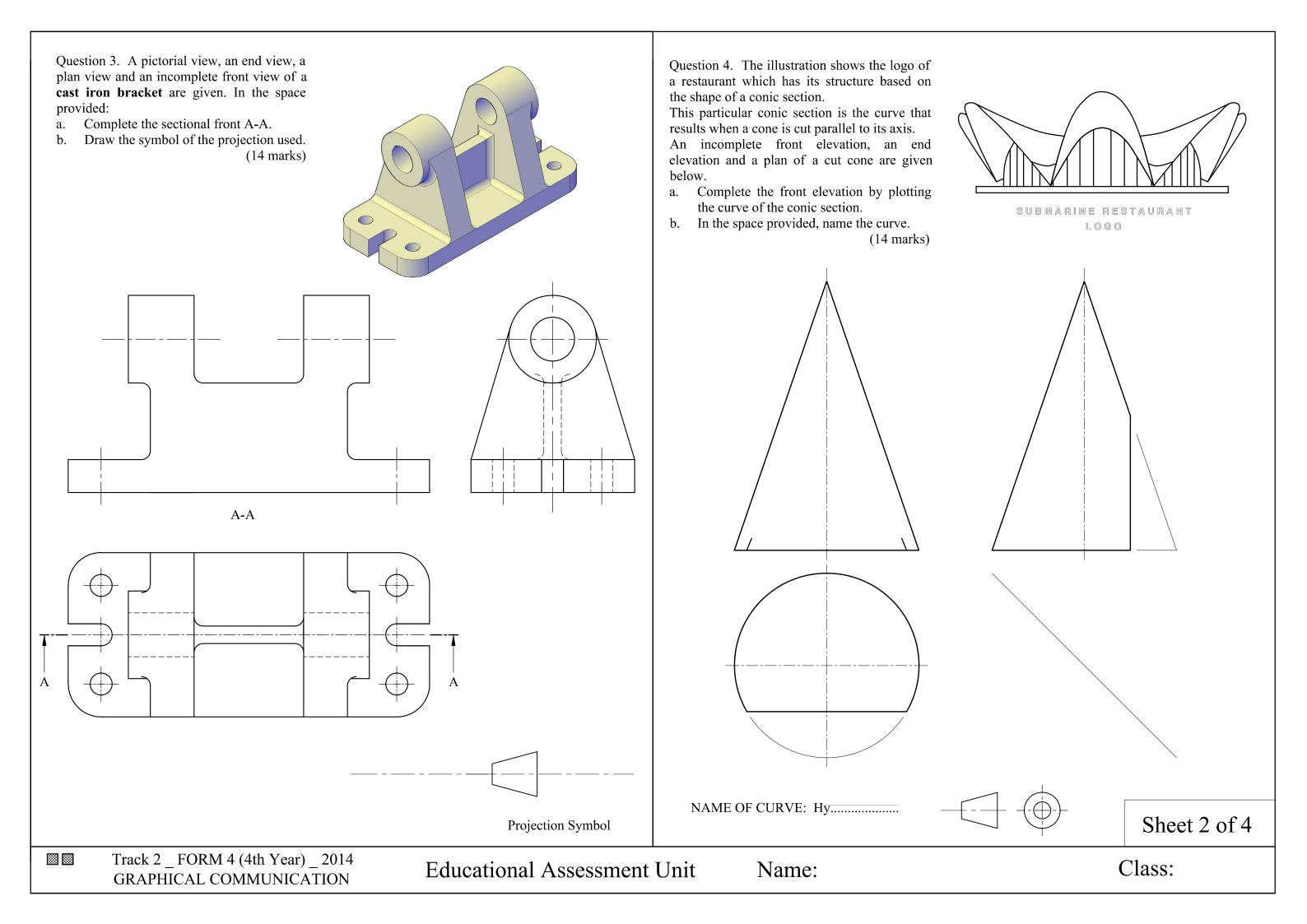
Sheet 1 of 4

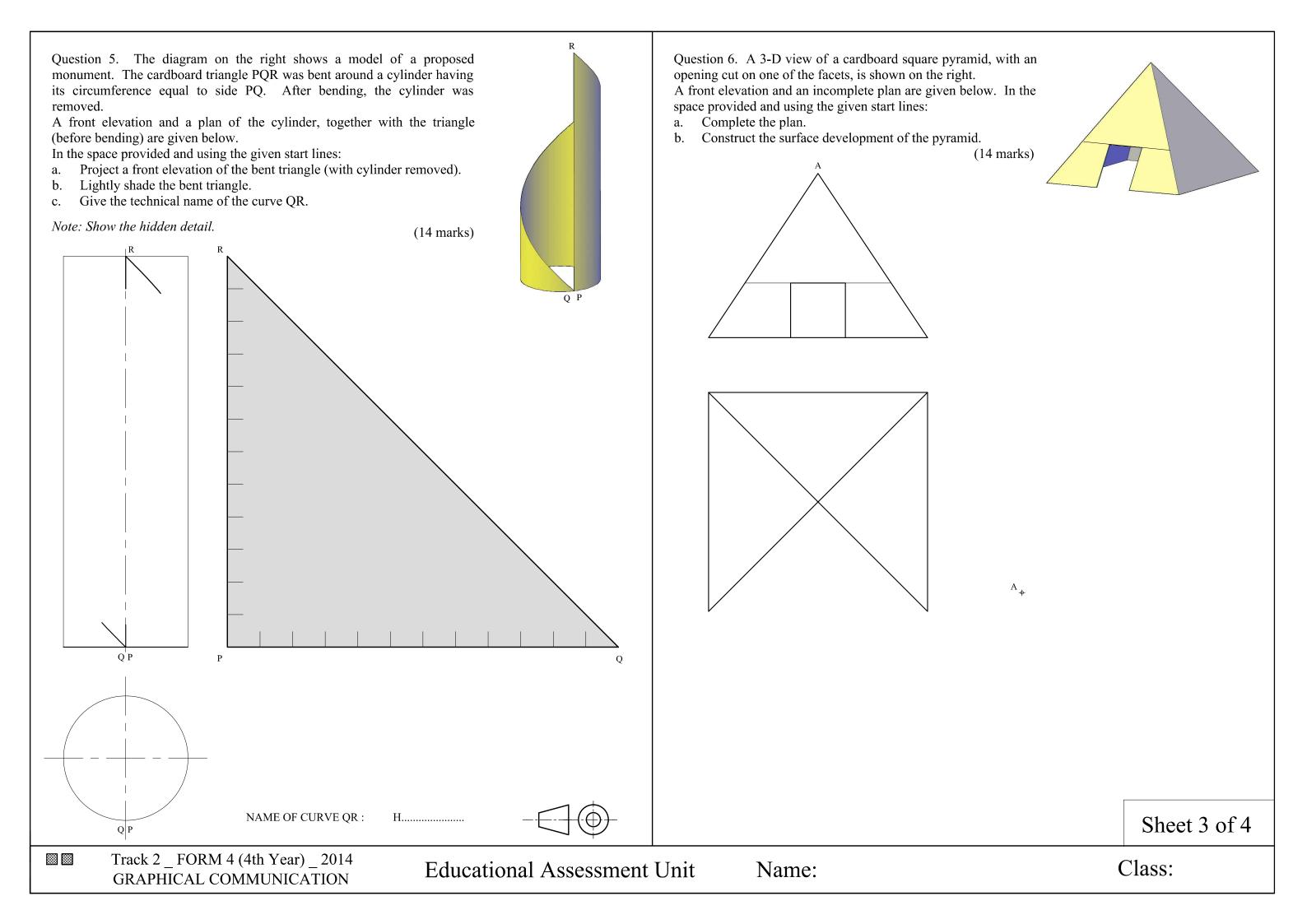
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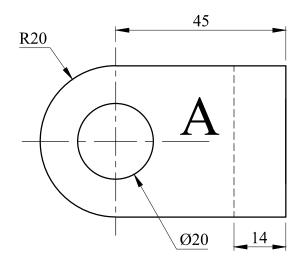




Question 7. Three orthographic views of a FORK END FITTING are given below. In the space provided and on the given start lines:

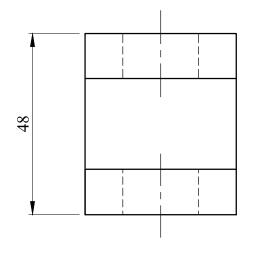
- a. Draw a well proportioned freehand pictorial drawing of the fitting, placing face A facing the viewer.
- b. Shade your drawing to give it a metal finish.
- c. Using set squares and compasses, draw a  $60^{\circ}/30^{\circ}$  planometric drawing of the same fitting, placing face A in the uppermost position.

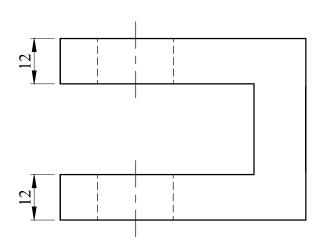
( 18 marks)

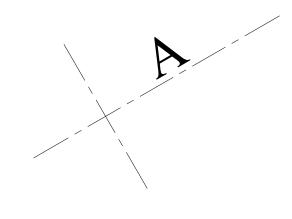




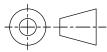
FREEHAND DRAWING







SCALE 1:1



PLANOMETRIC DRAWING

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