

Question 3.

The figures show two different stages of drawing a ship steering wheel. All the construction lines of wheel 'A' have been left visible. Wheel 'B' is shown in a shaded version.

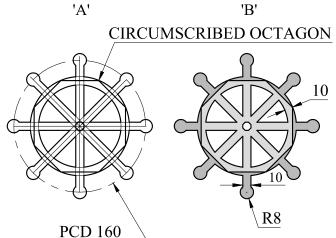
Start lines AB and BC are two sides of a regular octagon which forms part of the wheel pattern.

In the space provided below:

- Circumscribe a circle touching corners A, B and C.
- Complete the octagon.
- Bisect the other sides of the octagon.
- Complete the wheel by using the given dimensions.
- Line in with bold lines where necessary.

Note: Leave all constructions visible

14 marks



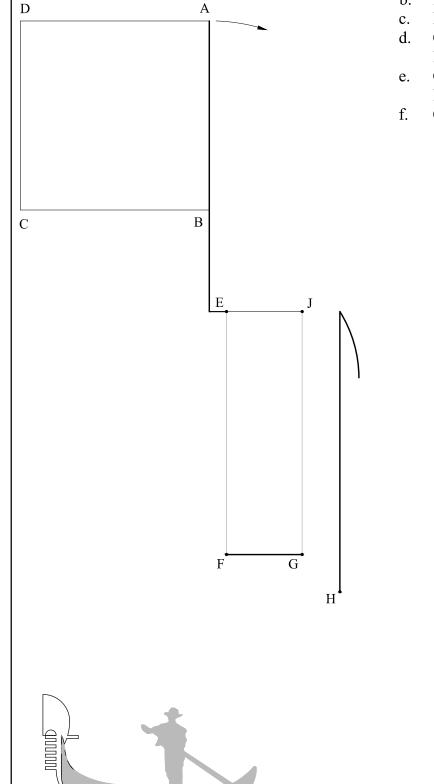
Question 4.

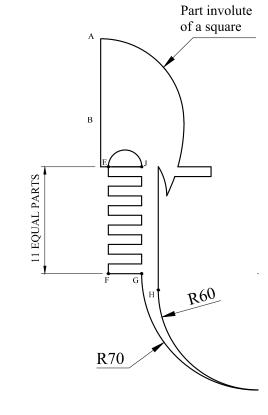
The dimensioned drawing below illustrates the distinctive metal design at the prow of the g

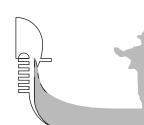
Using the given start lines and dimensions, complete the drawing by following the given instruction

- a. Construct a part involute of the square AB
- Divide, by construction, EF into 11 equal parts
- Bisect EJ and draw the semi-circle.
- Construct a perpendicular from point G to locate the centre and draw R70.
- Construct a perpendicular from point H to locate the centre and draw R60.
- f. Complete the drawing.

12 marks





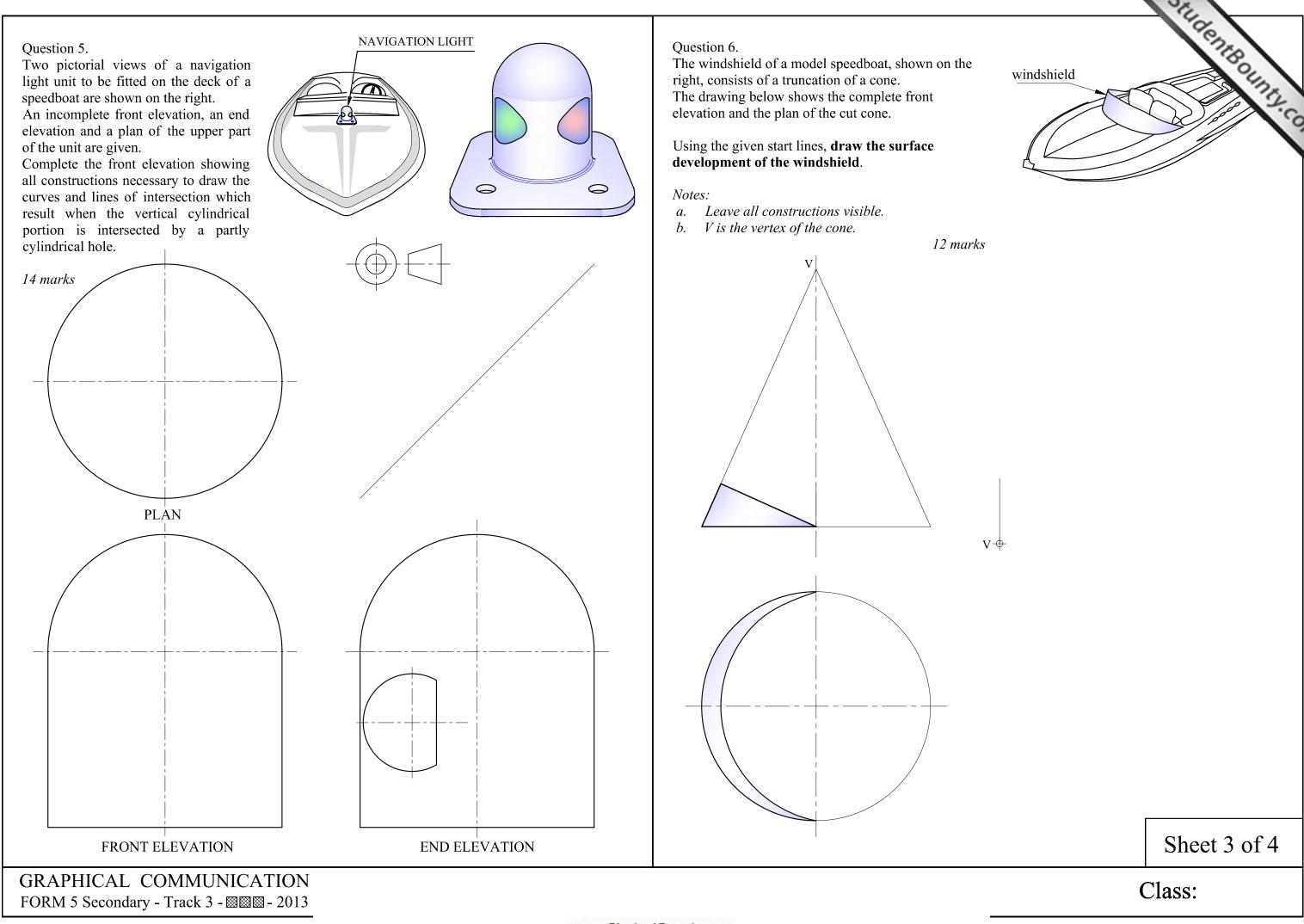


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Class:

GRAPHICAL COMMUNICATION FORM 5 Secondary - Track 3 - ⊠ ⊠ - 2013

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Student Bounty Com Question 7. Question 8. Two views of a cast aluminium bronze Three full size orthographic views and a scaled down isometric drawing of a solid wood to boat propeller shaft bracket are shown on are given. On the given start lines draw a **full size isometric projection** of the boat. the right. Note: The windows of the cabin consist of paper stickers on solid wood. An incomplete front view, a plan and an auxiliary end view are given below. In the space provided: a) complete the Sectional Front X-X, Boat propeller shaft bracket b) draw the symbol of the projection used. Note: Do not show any hidden detail. 10 marks X PLAN (seen from below) AUXILIARY END VIEW SECTIONAL FRONT X-X Sheet 4 of 4 PROJECTION ANGLE GRAPHICAL COMMUNICATION Class: FORM 5 Secondary - Track 3 - ⊠ ⊠ - 2013

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