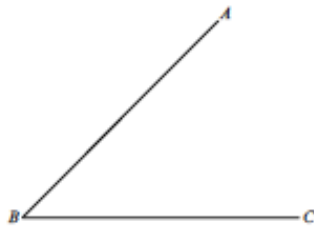


Topic 10 Constructions and loci (Pre-TT) [23]

1.

Draw a rough, enlarged copy of the diagram below. Using ruler and compasses only, construct the bisector of angle ABC .



(Total 2 marks)

2.

(a) The line LM is drawn below. Draw a rough copy.



Use ruler and compasses to construct the perpendicular bisector of LM . You **must** show clearly all your construction arcs.

(2)

(b) Copy and complete the sentence. The perpendicular bisector of LM is the locus of points which are...

(1)

(Total 3 marks)

3.

Use a ruler and compasses to construct a rhombus that has sides of 6 cm and whose shorter diagonal is 4 cm.

(Total 4 marks)

4.

The diagram shows an L shape. Draw a copy of the diagram, 8cm by 3cm..

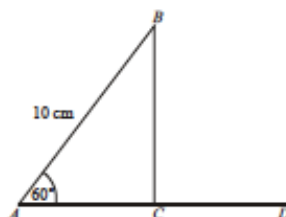


Draw the locus of all points 2 cm from the L shape.

(Total 3 marks)

5.

ABC is a triangle. ACD is a straight line.



Not drawn accurately

Using a ruler and compasses only, make an accurate construction of this diagram. You **must** show clearly all your construction arcs.

(Total 6 marks)

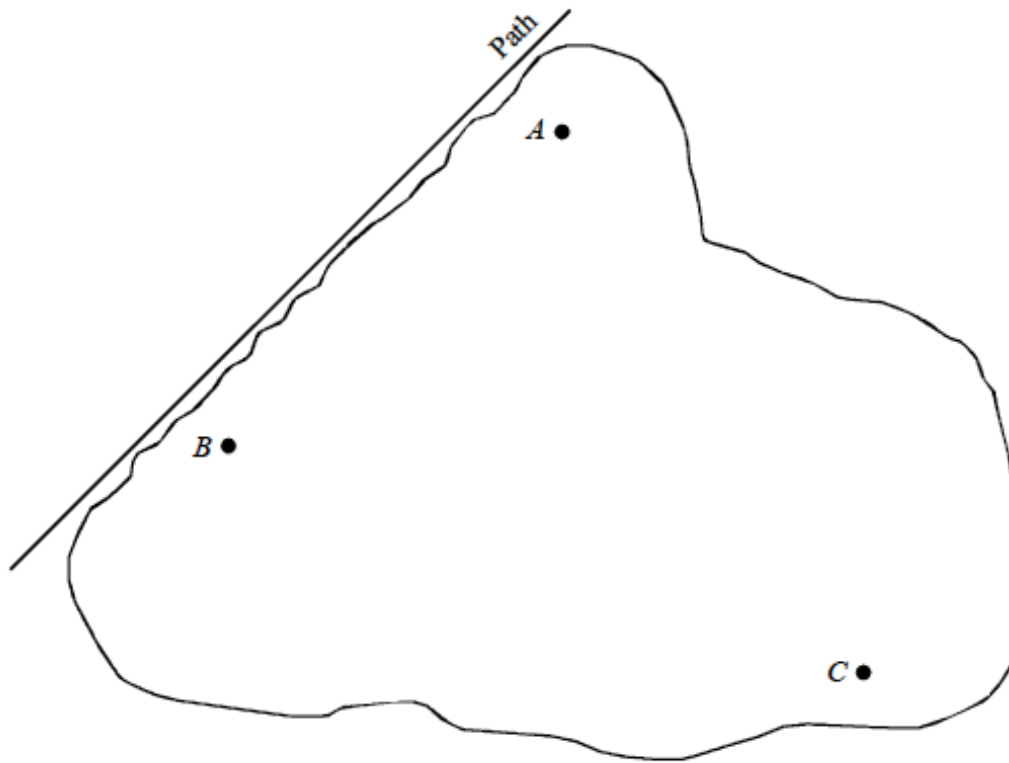
6.

The map below shows three boats, A , B and C , on a lake.
Along one edge of the lake there is a straight path.

Treasure lies at the bottom of the lake.

The treasure is:
between 150 m and 250 m from B ,
nearer to A than C ,
more than 100 m from the path.

Scale: 1 cm represents 50m



Using a ruler and compasses only, shade the region in which the treasure lies.

You **must** show clearly all your construction arcs.

(Total 5 marks)