



Loci - PRINT THIS ON A4



REVISE THIS TOPIC

CHECK YOUR ANSWERS



1 Construct the locus of points that are exactly 5 cm away from the point A .

×
 A



(Total for Question 1 is 1 mark)

1

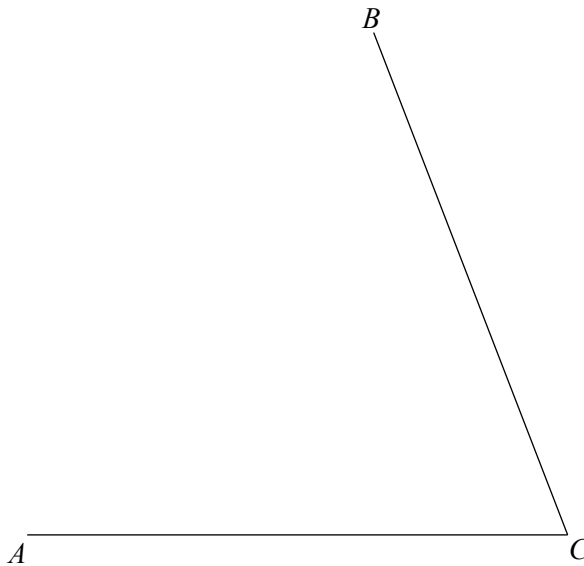
2 Construct a locus of points that are the same distance from points A and B .

×
 A

×
 B

(Total for Question 2 is 2 marks)

3 Construct a locus of points that are the same distance from lines AC and BC .



(Total for Question 3 is 2 marks)



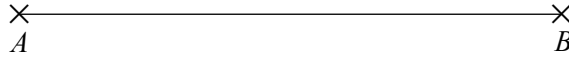
4 Construct the locus of points that are less than 4 cm away from the point A .

×
 A

(Total for Question 4 is 2 marks)

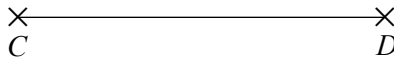


5 Construct the locus of points that are exactly 3 cm away from the line AB .



(Total for Question 6 is 2 marks)

6 Construct the locus of points that are less than 3.5 cm away from the line CD .



(Total for Question 6 is 2 marks)



7 Here are points A , B and C .

×
 A

×
 B

×
 C

The region **R** consists of all points that are

less than 4 cm from A

and less than 5 cm from B

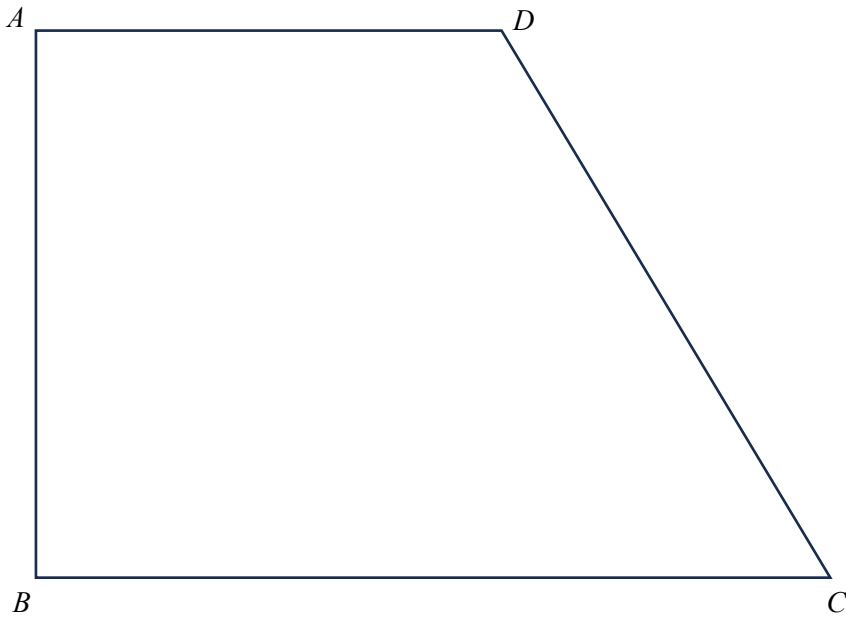
and less than 6 cm from C

Show, by shading, the region **R**.

(Total for Question 7 is 3 marks)



8 Here is quadrilateral $ABCD$



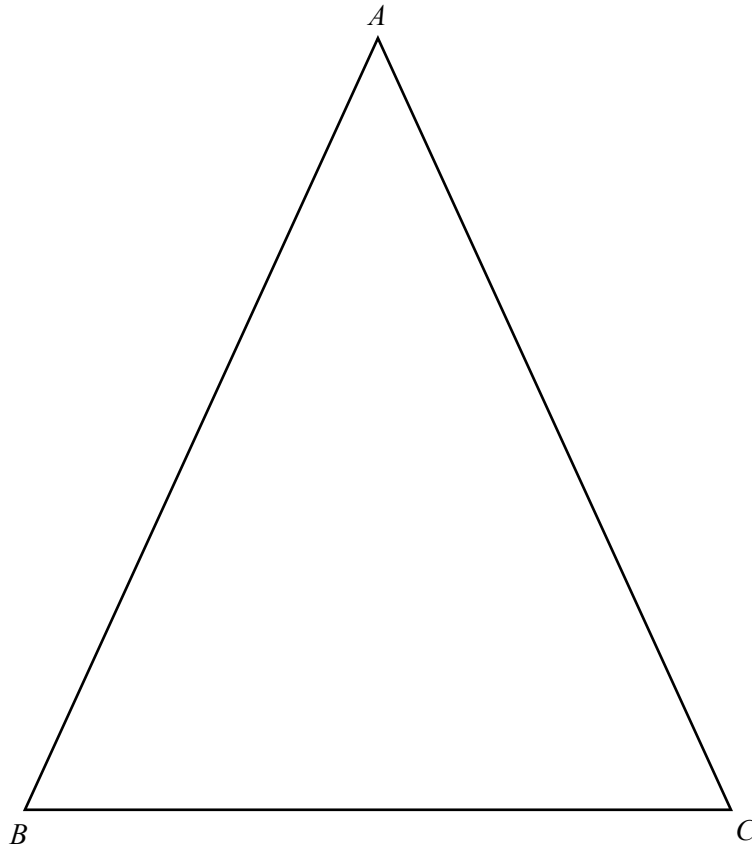
The region **R** consists of all points that are
inside the quadrilateral $ABCD$
and closer to point B than to point C
and closer to line CD than to line AD

Show, by shading, the region **R**.

(Total for Question 8 is 4 marks)



9 Here is isosceles triangle ABC



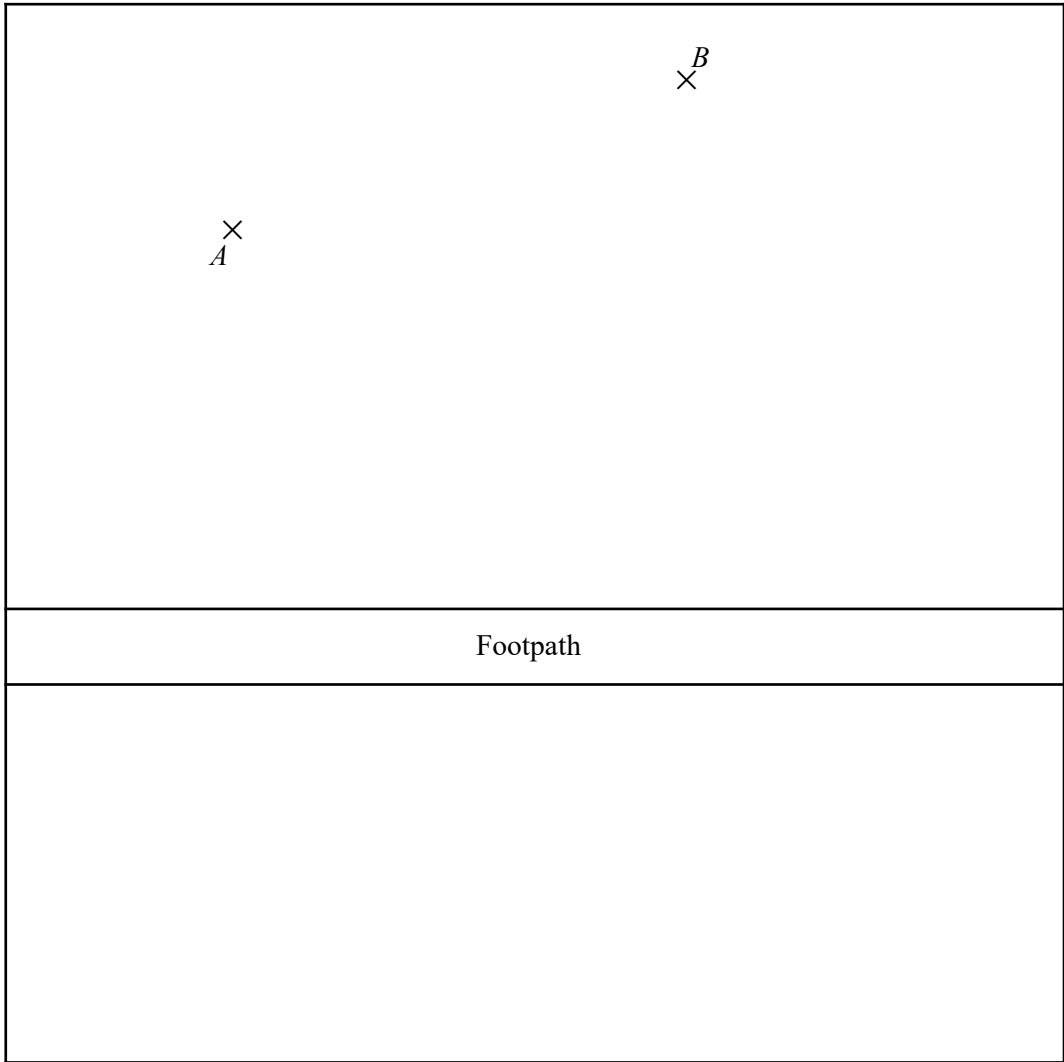
The region **R** consists of all points that are
inside the triangle ABC
and more than 5 cm away from the point A
and closer to line AC than to line BC

Show, by shading, the region **R**.

(Total for Question 9 is 4 marks)



10 Here is a map of a park showing two trees at points A and B and a footpath.



1 cm represents 2 metres.

A new tree is to be planted in that park that is

an equal distance away from the two trees at points A and B

and exactly 6 m away from the edge of the footpath.

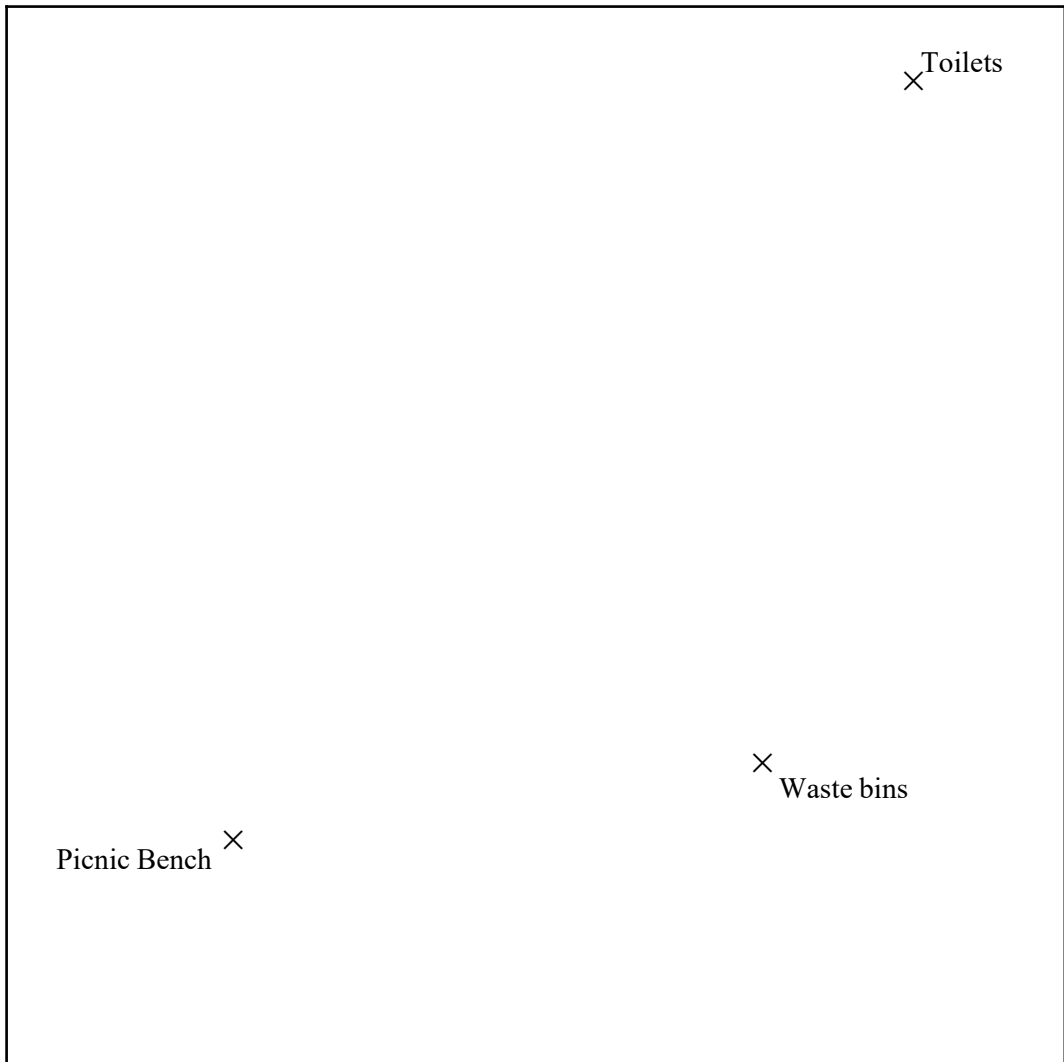
Using a ruler and a pair of compasses, identify the two possible locations for the new tree.

Label the locations P and Q .

(Total for Question 10 is 4 marks)



11 Here is a map of a campsite.



1 cm represents 20 metres.

A camper wishes to pitch their tent so that it is
within 100 m of picnic bench
and at least 80 m from the waste bins
and at least 200 m from the toilets.

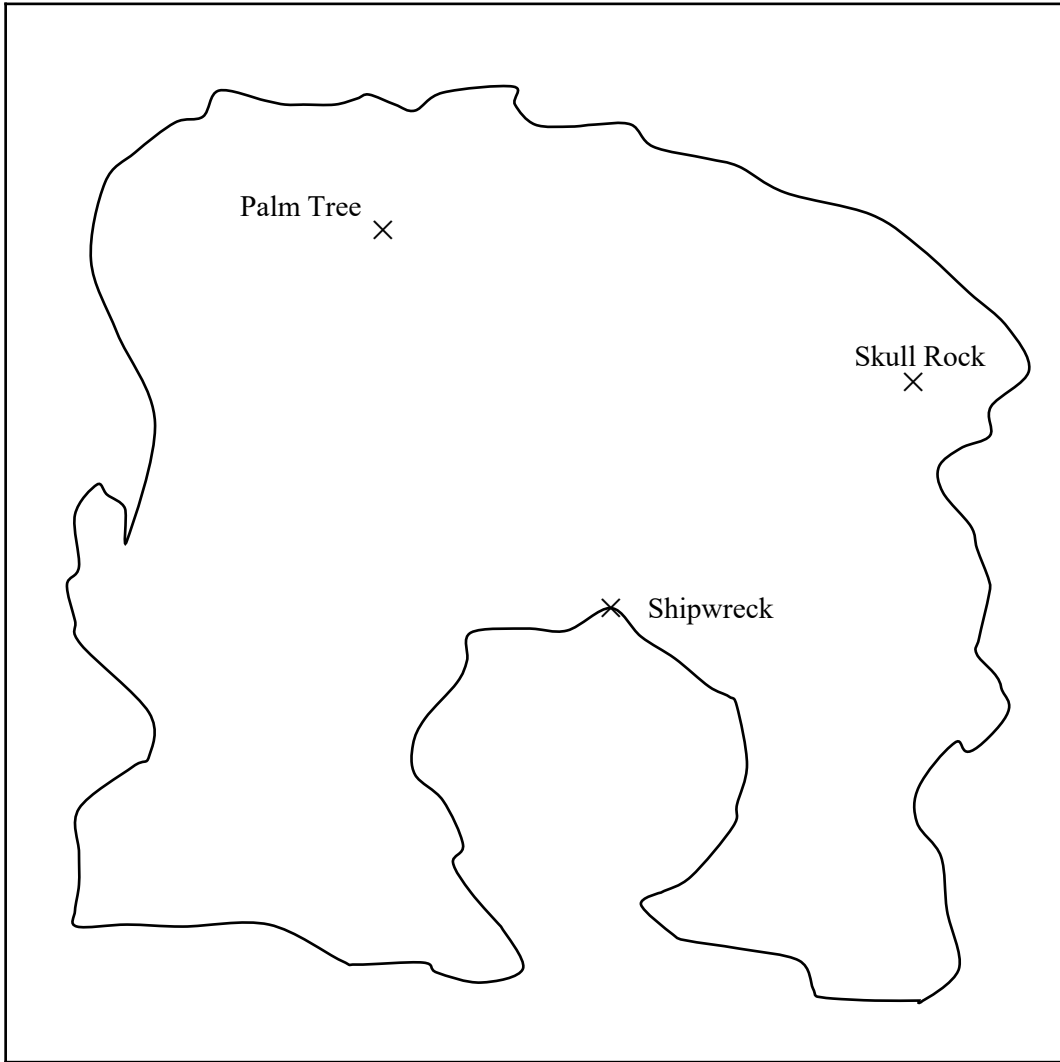
Show, by shading, the region that the camper can pitch their tent.

Label the region **R**.

(Total for Question 11 is 4 marks)



12 Here is a map of an island.



1 cm represents 3 kilometres.

Treasure is buried on the island so that it is
less than 12 km away from the Shipwreck

and closer to Skull Rock than the Palm Tree

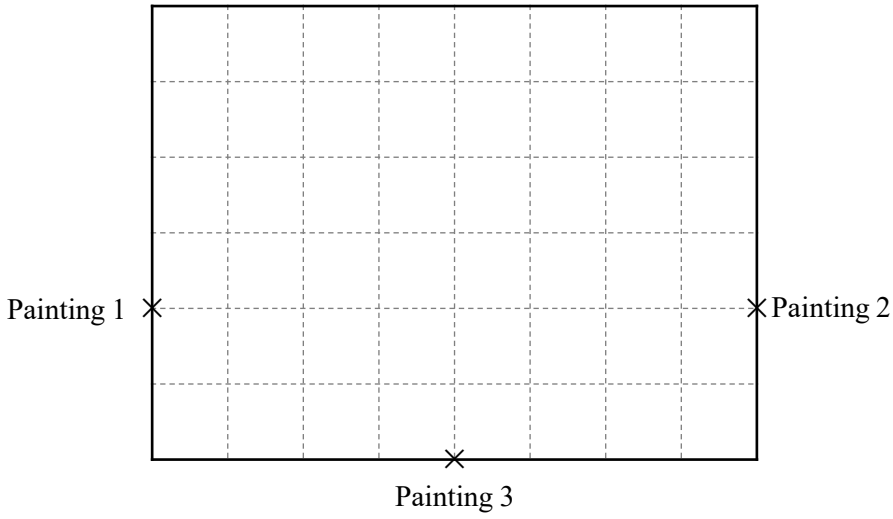
Show, by shading, the region where the treasure could be.

Label the region **R**.

(Total for Question 12 is 4 marks)



13 Here is a map of a room in a museum.



1 cm represents 2 metres.

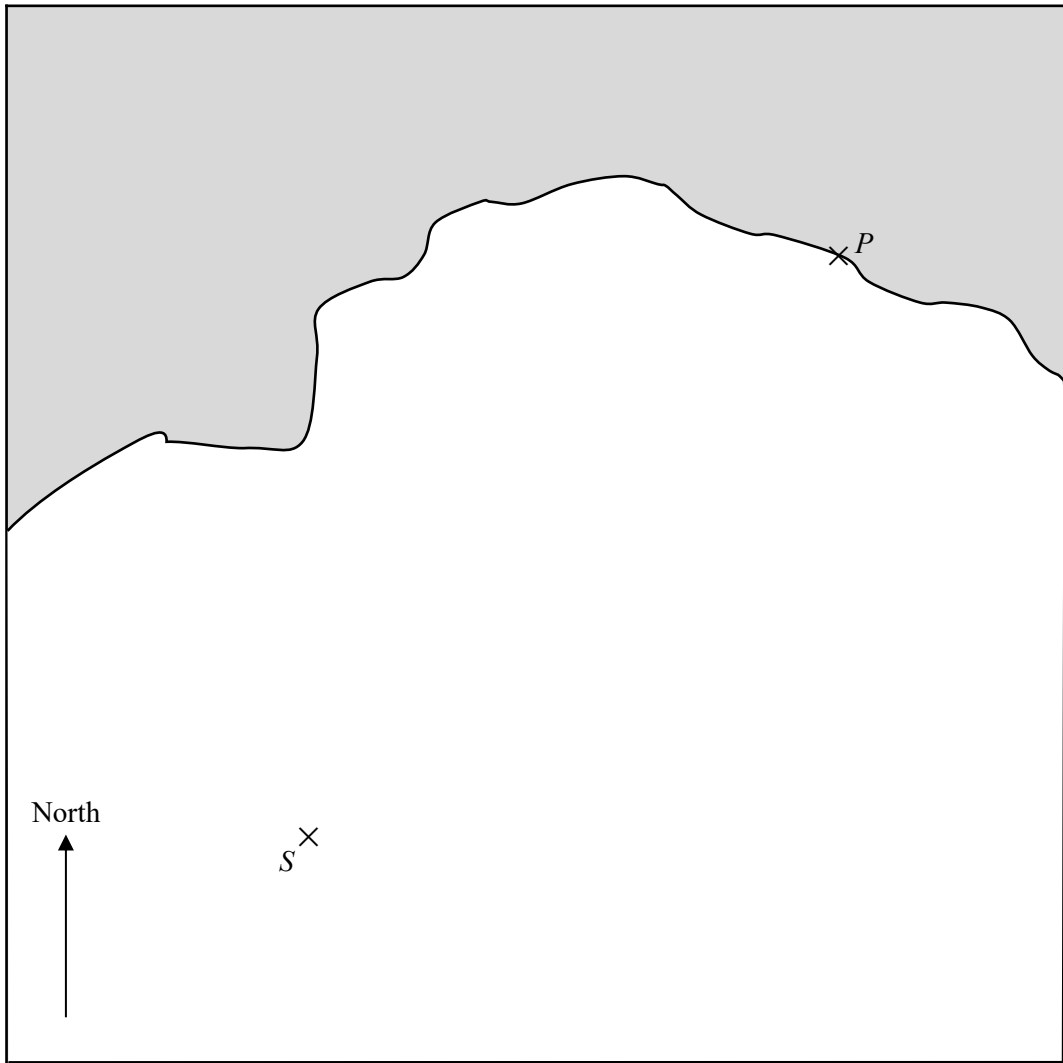
For security reasons visitors are **not allowed** to stand
 within 6 m of Painting 1 or Painting 2
or within 5 m of Painting 3

Show, by shading, the region where visitors are **allowed** to stand.

Label the region **R**.



14 Here is a map showing a ship, S and a port, P .



A fishing boat located in the water that is
 closer to the port than the ship
and between a bearing of 020° and 045° from the ship
 Show, by shading, the region where the fishing boat could be located.
 Label the region **R**.

(Total for Question 14 is 4 marks)

