

## Locus of a point

- 1 Draw the locus of a point which is always a distance of 4cm from a fixed point A.
- 2 Draw the locus of a point which is always a distance of 6cm from a fixed point A
- 3 Draw the locus of a point which is always a distance of 10cm from a fixed point A.
- 4 The line AB is 4cm long. Draw the locus of a point which is always 2cm from the line AB
- 5 The line AB is 6cm long. Draw the locus of a point which is always 3cm from the line AB
- 6 The line AB is 5cm long. Draw the locus of a point which is always 4cm from the line AB
- 7 (a) Draw a line AB, 8 cm long  
(b) Draw the locus of a point, P, which is above the line AB such that the area of the triangle ABP is  $20 \text{ cm}^2$   
(c) On the same diagram, construct the locus of points, Q, which is above the line AB such that angle AQB is  $90^\circ$

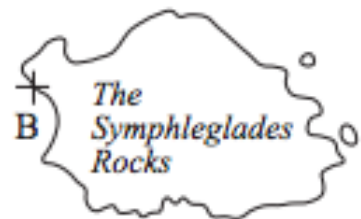
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## Locus of a point

- 8 Tom has to sail his ship between two rocks so that his ship is always the same distance from point A on the first rock and point B on the second rock

The diagram below shows the two rocks.



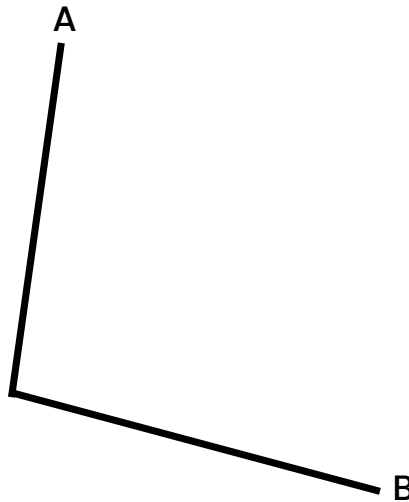
On a copy of the same diagram, construct accurately the path along which Tom must sail his ship.

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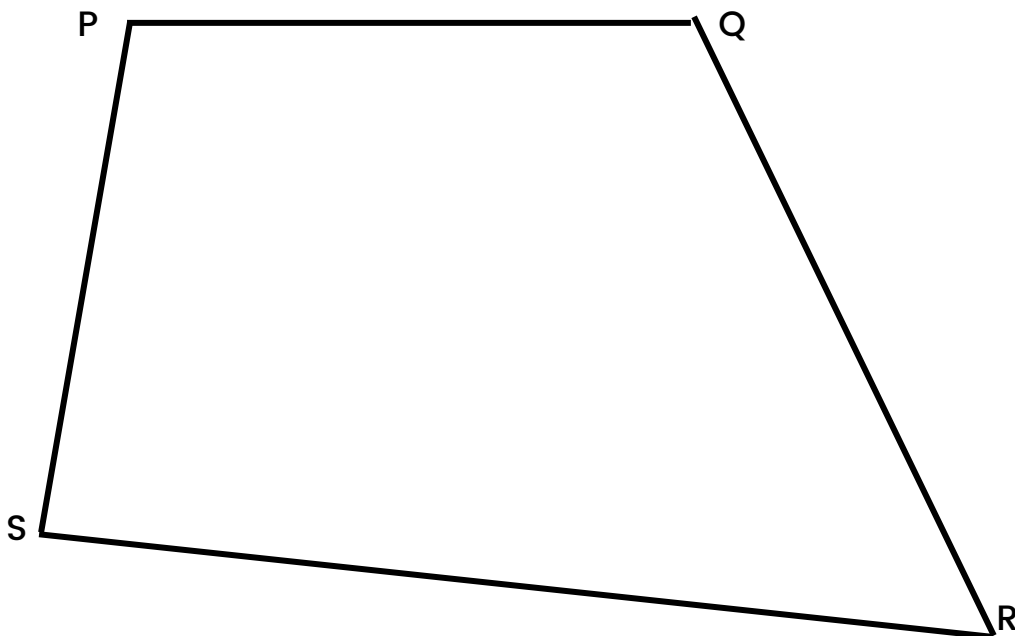
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## Locus of a point

- 9 The lines AB and AC meet at an angle as shown below. Draw the locus of points that are equidistant from lines AB and BC.



- 10 The diagram shows a quadrilateral PQRS.



- (a) On a copy of the diagram, draw the locus of points that are the same distance from P as from Q.
- (b) Shade the region inside the quadrilateral which is less than 7 cm from S and nearer to Q than to P.