**Sine rule**

**Question 1**

The diagram shows triangle ABC.



 Angle BCA = 28°
Angle CAB = 134°
BC = 10.2 cm.

 Calculate the length of AB.
Give your answer correct to 3 significant figures.

 .......................... cm

 **(3 marks)**

**Question 2**

*P* and *Q* are two points on a coast. *P* is due North of *Q*.
A ship is at the point *S*. *PS* = 2.9 km.
The bearing of the ship from *P* is 062°.
The bearing of the ship from *Q* is 036°.

 Calculate the distance *QS*.
Give your answer correct to 3 significant figures.

 **..........................** km

 **(3 marks)**

**Question 3**



 Calculate the length of *AC*.
Give your answer correct to 3 significant figures.

 **..........................** cm

 **(3 marks)**

**Question 4**

Here is a quadrilateral $PQRS$.



Angle $SRQ$ is acute.

Work out the size of angle $SQR$ .
Give your answer correct to 1 decimal place.

 **..........................** $ ^{°}$

 **(6 marks)**

**Question 5**

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**Question 6**

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