

Circle Theorems & Bearings

Topic focus paper · Calculator allowed

Name: _____

Date: _____

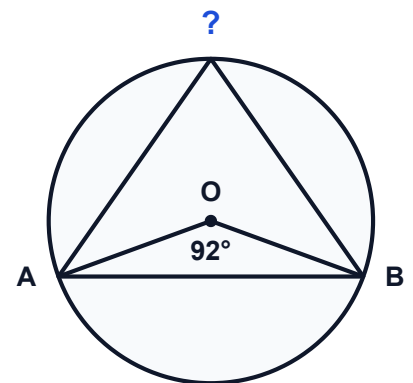
Total: **20 marks****Instructions**

- Answer all questions in the spaces provided.
- Show all working. Marks may be awarded for method.
- Diagrams are not drawn to scale.
- Calculators may be used unless a question says otherwise.

1 Circle theorems

A, B and C are points on a circle, centre O. Angle $AOB = 92^\circ$. Work out the size of angle ACB. Give a reason for your answer.

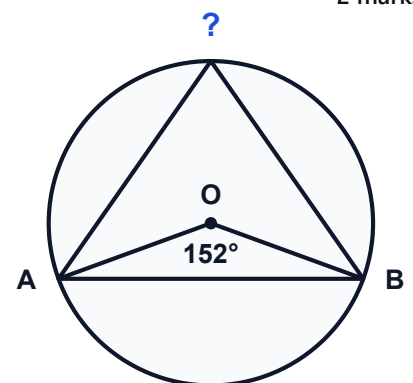
2 marks



2 Circle theorems

A, B and C are points on a circle, centre O. Angle $AOB = 152^\circ$. Work out the size of angle ACB. Give a reason for your answer.

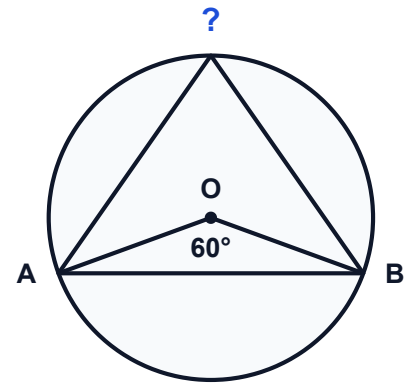
2 marks



3 Circle theorems

2 marks

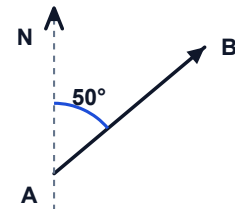
A, B and C are points on a circle, centre O. Angle $ACB = 30^\circ$. Work out the size of angle AOB. Give a reason for your answer.



4 Bearings

2 marks

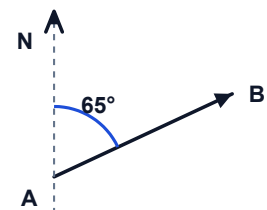
The bearing of B from A is 050° . Work out the bearing of A from B. Give your answer as a three-figure bearing.



5 Bearings

2 marks

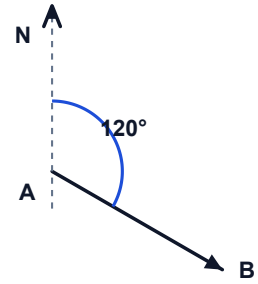
The bearing of B from A is 065° . Work out the bearing of A from B. Give your answer as a three-figure bearing.



6 Bearings

2 marks

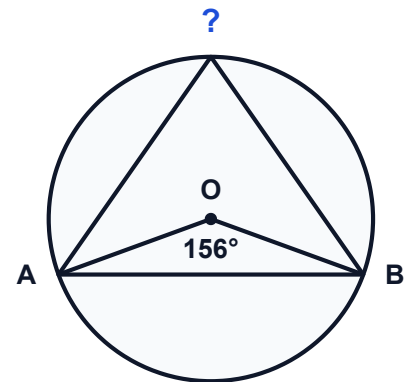
The bearing of B from A is 120° . Work out the bearing of A from B. Give your answer as a three-figure bearing.



7 Circle theorems

2 marks

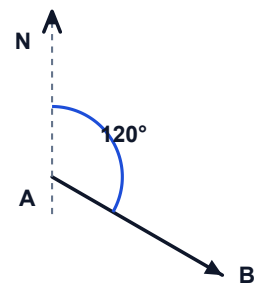
A, B and C are points on a circle, centre O. Angle $ACB = 78^\circ$. Work out the size of angle AOB. Give a reason for your answer.



8 Bearings

2 marks

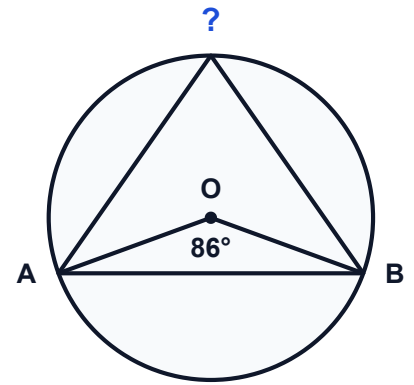
The bearing of B from A is 120° . Work out the bearing of A from B. Give your answer as a three-figure bearing.



9 Circle theorems

2 marks

A, B and C are points on a circle, centre O. Angle $AOB = 86^\circ$. Work out the size of angle ACB. Give a reason for your answer.



10 Bearings

2 marks

The bearing of B from A is 080° . Work out the bearing of A from B. Give your answer as a three-figure bearing.

