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International Examinations Papers

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MATHEMATIC A
TOPIC- Trigonometry
Bearings

11

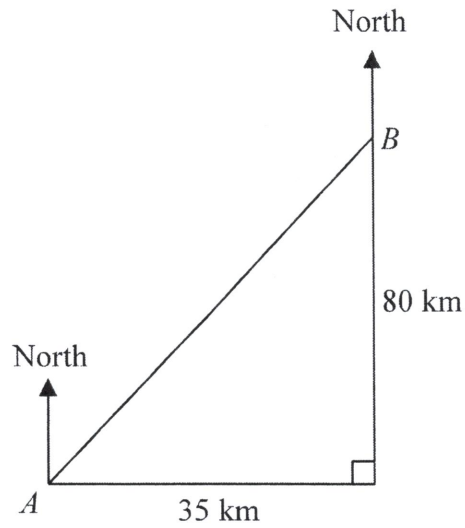


Diagram NOT
accurately drawn



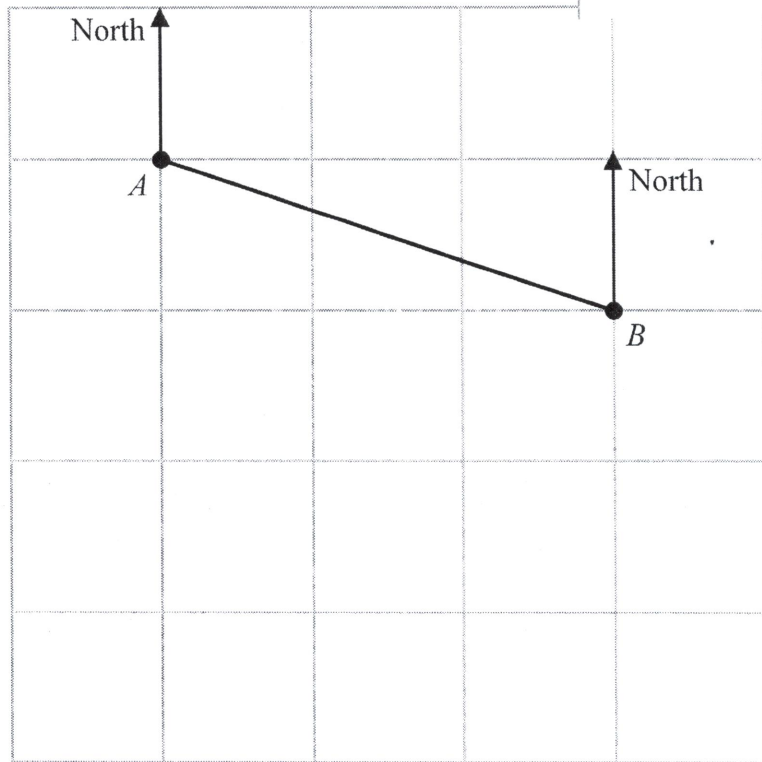
Town B is 35 km east and 80 km north of town A .

Work out the bearing of A from B .
Give your answer correct to the nearest degree.

(Total for Question 11 is 4 marks)

Do NOT write in this space.





The diagram shows point *A* and point *B* on a map.
 The point *C* is due south of *A*.
 The bearing of *C* from *B* is 235°

(a) Mark the point *C* on the map.

(2)

The bearing of a point *D* from *B* is 168°

(b) Find the bearing of *B* from *D*

(2)

Gordon measures a length on the map as 6.3 cm correct to 1 decimal place.

(c) Write down the lower bound for this length.

cm

(1)

(Total for Question 8 is 5 marks)



9 The diagram shows the positions of two towns, A and B .

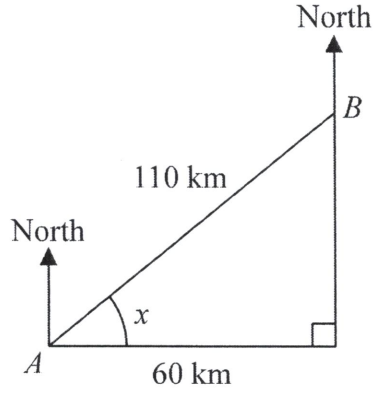


Diagram NOT accurately drawn



The distance from A to B is 110 km.
 B is 60 km east of A .

- (a) Work out the size of angle x .
 Give your answer correct to 1 decimal place.

.....
 (3)

- (b) Work out the bearing of B from A .
 Give your answer correct to the nearest degree.

.....
 (2)

The distance from A to B is 110 km correct to 2 significant figures.

- (c) (i) Write down the lower bound for the distance from A to B .

..... km

- (ii) Write down the upper bound for the distance from A to B .

..... km

(2)

(Total for Question 9 is 7 marks)

