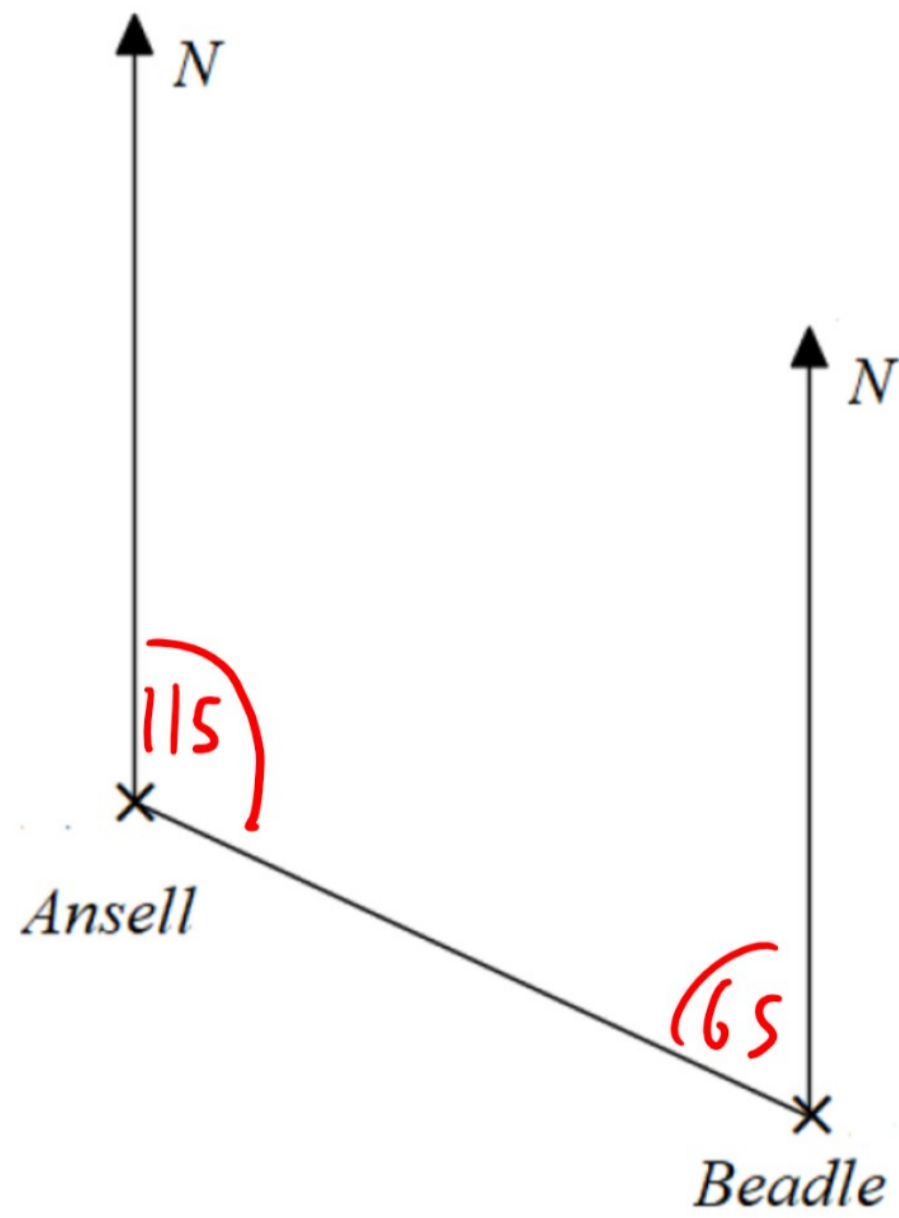


Bearings Exam Practice



Q1.



(i) Measure the bearing of Beadle from Ansell.

Answer: 115°
(2 marks)

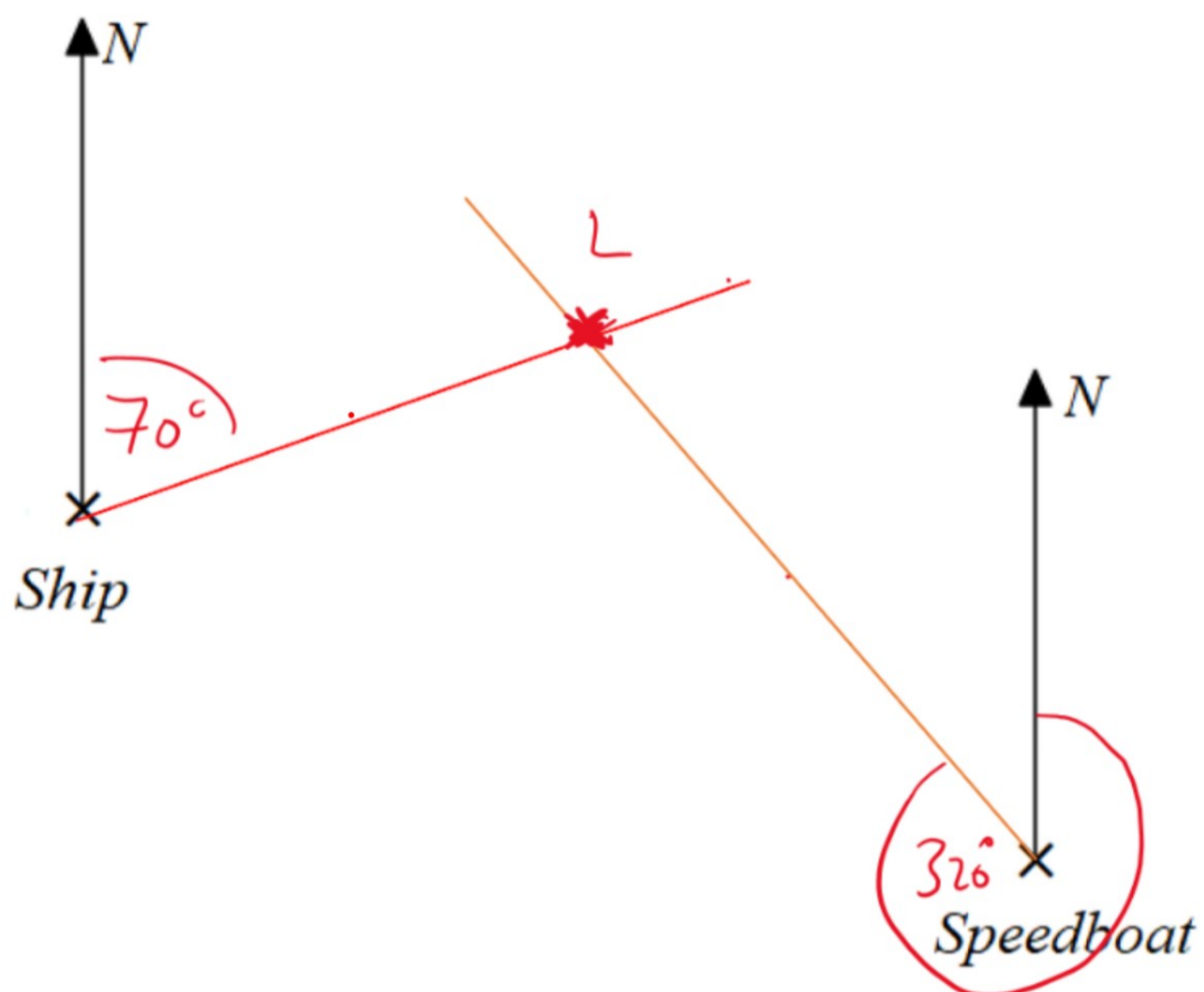
(ii) What is the bearing of Ansell from Beadle?

- Co-interior angles add up to $180^\circ \Rightarrow 180 - 115 = 65^\circ$
- $360 - 65 = 295^\circ$

Answer: 295°
(2 marks)



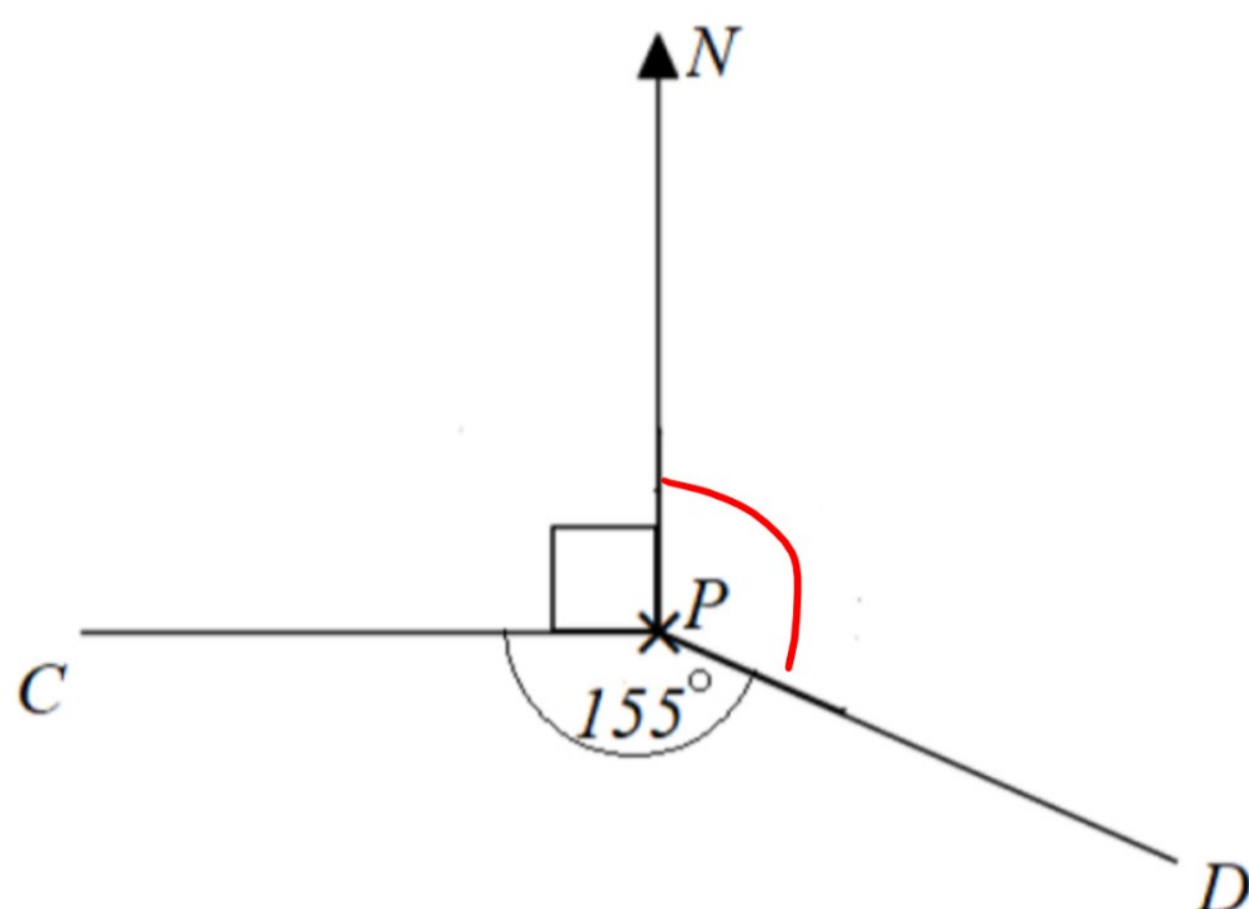
Q2. The diagram below shows the position of a ship and a speedboat. A lighthouse is on bearing of 070° from the ship, and on a bearing of 320° from the speedboat. Place a cross to indicate the position of the light-house.



Answer: _____
(2 marks)



Q3.



(i) Work out the bearing of point D from point P.

$$360 - 90 - 155 = 115$$

Answer: 115°
(2 marks)

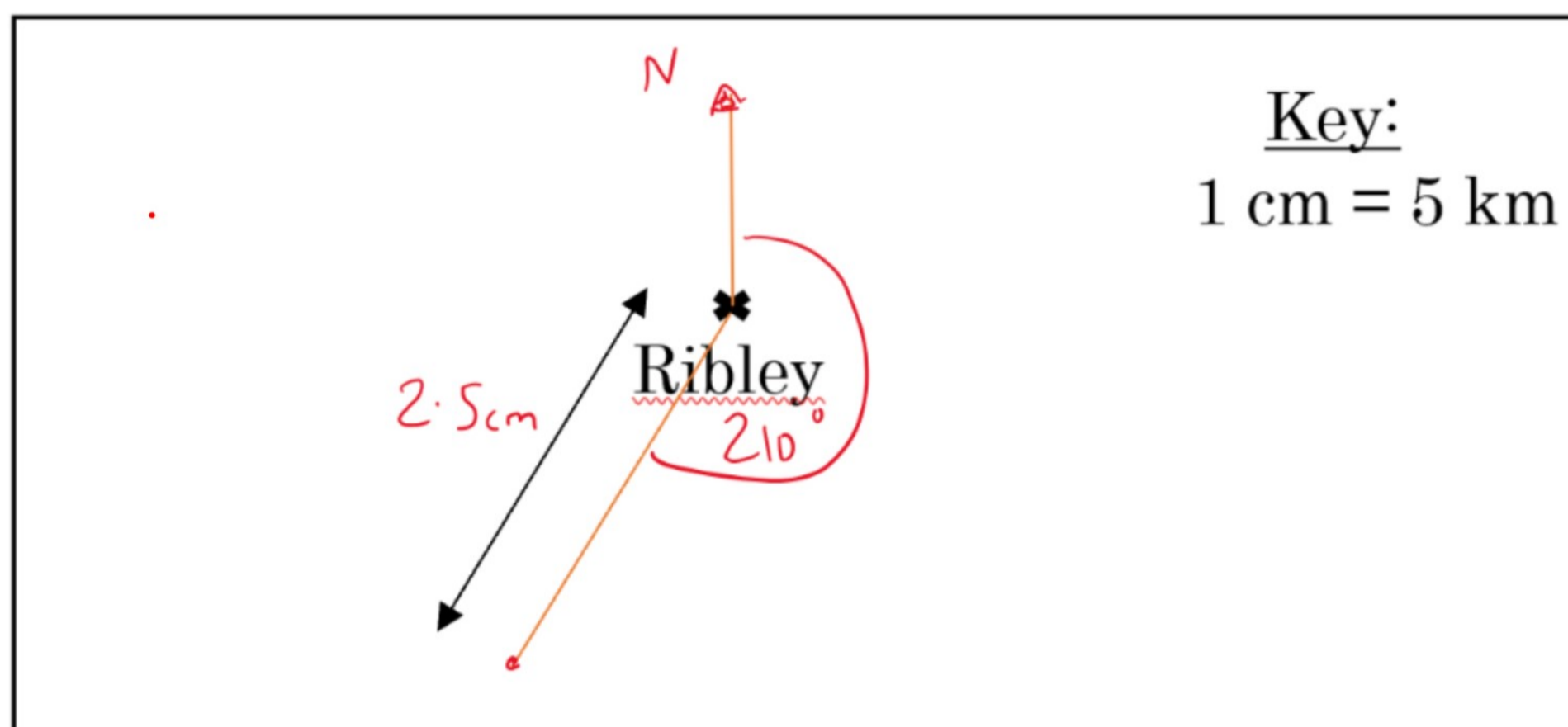
(ii) Ron says that “the bearing of P from C is 90°”.
Explain why he is incorrect.

The answer should be 090°

Answer: 090°
(1 mark)



Q4. Here is the scale map of a local area.

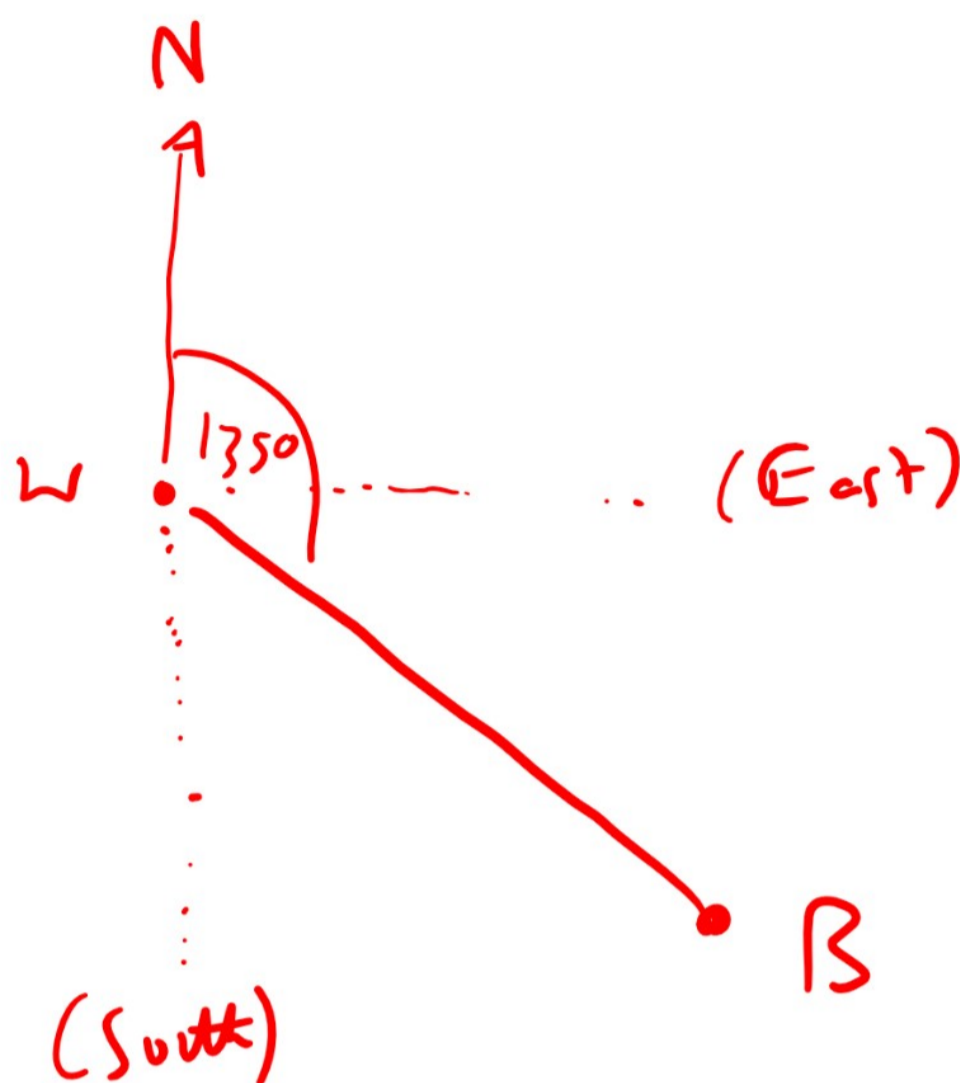


The town of Hoxley lies on a bearing of 210° from Ribley and the distance between the two villages is 12.5 km. Mark on the map the position of Hoxley.

Answer: _____
(2 marks)



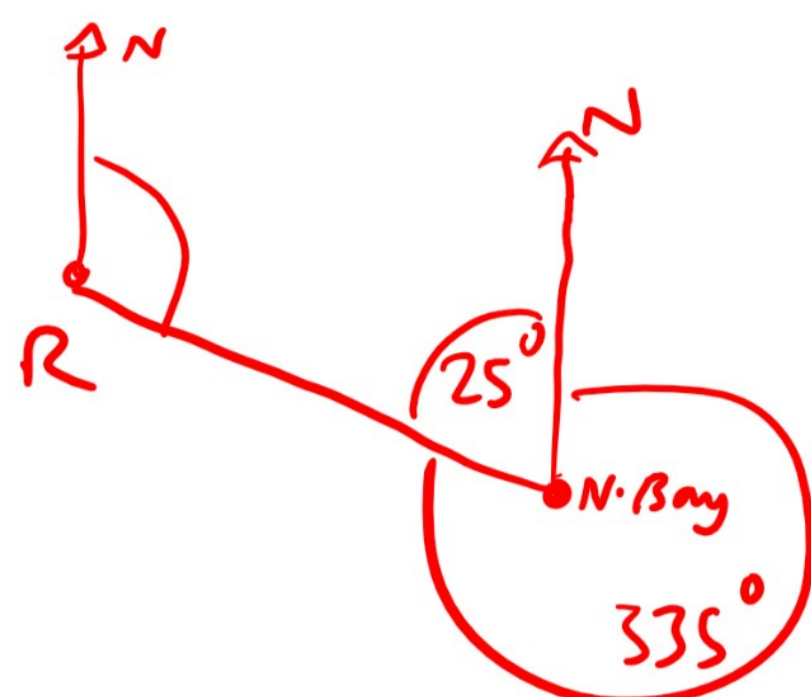
Q5. The town of Blanting lies South-East of the town of Wortley. Find the bearing of Blanting from Wortley.



Answer: 135°
(2 marks)



Q6. The bearing of Renton from Norton Bay is 335° . Work out the bearing of Norton Bay from Renton.



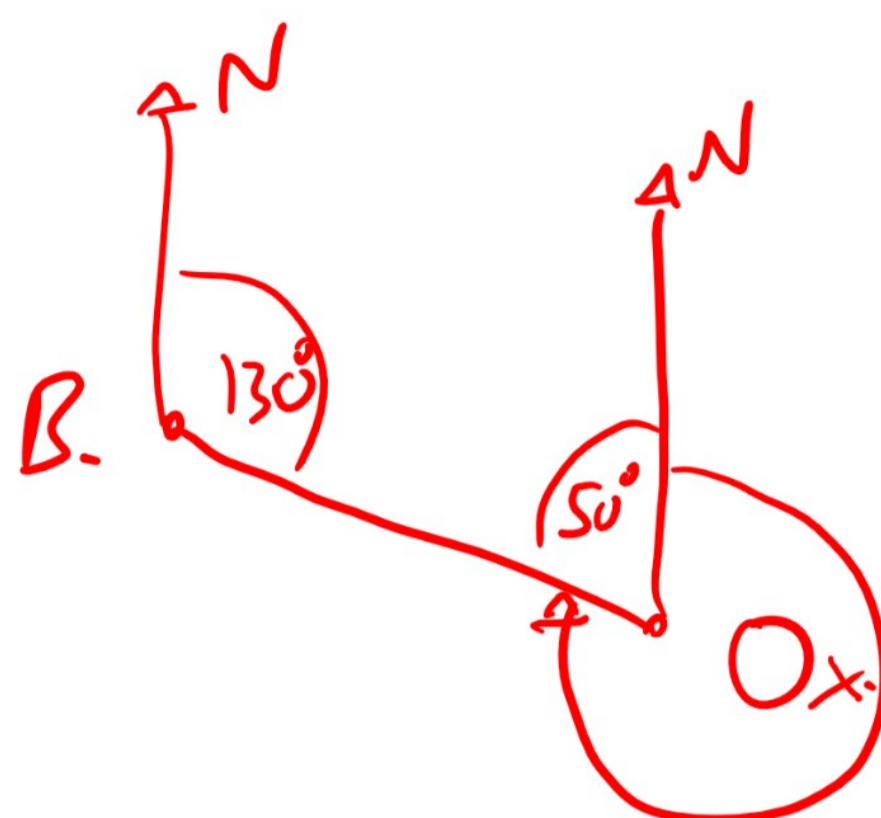
- Required Bearing is $180 - 25^\circ$
(co-interior angles add up to 180°)

$$\Rightarrow 155^\circ$$

Answer: 155°
(2 marks)



Q7. The bearing of Oxley from Bielby is 130° . Work out the bearing of Bielby from Oxley



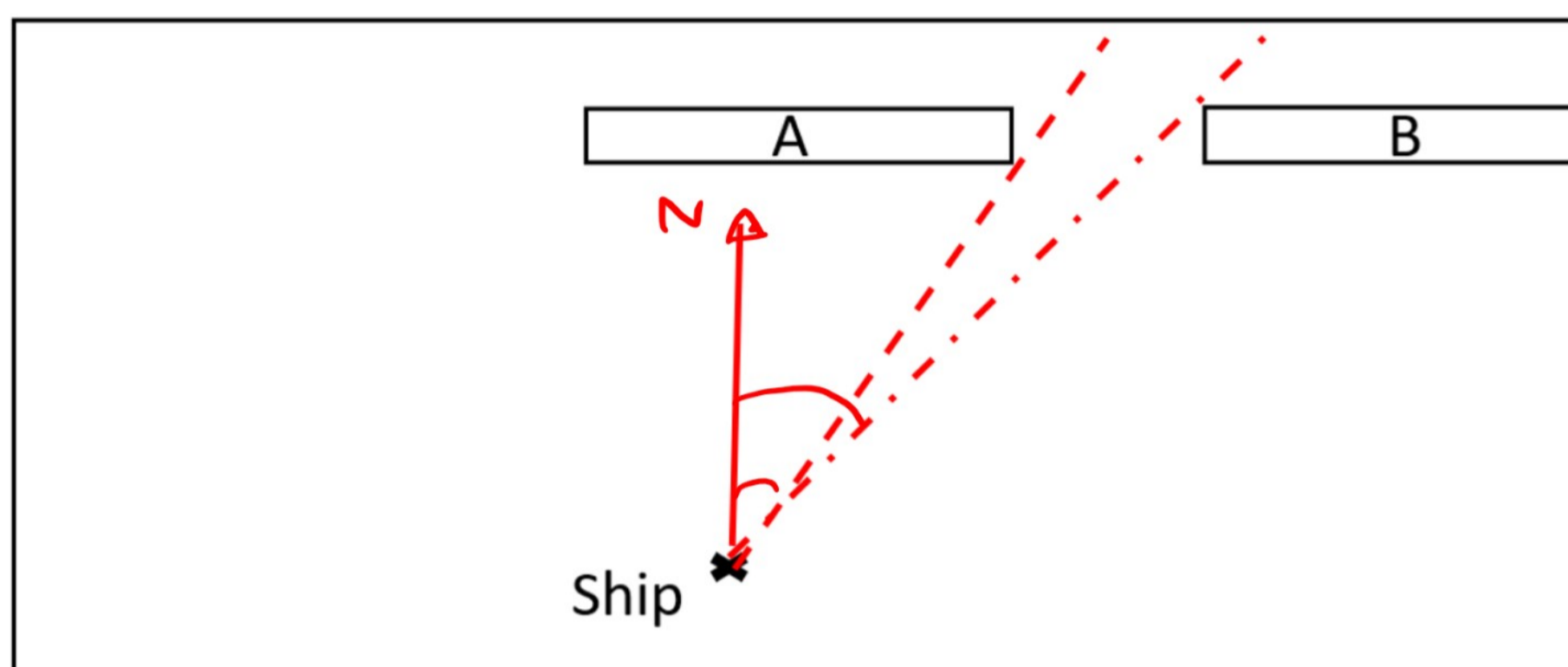
• Required bearing is $360^\circ - 50^\circ = 310^\circ$

Answer: 310°
(2 marks)



Q8. In a sailing competition, the captain must sail the boat between two artificial islands, marked A and B. He decides to sail on a bearing of 040° , but knows from experience that he may be up to 15% out in this calculation.

Decide if he is certain to make it through the channel between the two islands. Explain your reasoning carefully.



- $15\% \text{ of } 40^\circ = 6^\circ$
 \Rightarrow He may sail on a bearing of 034° to 046°
- The two bearings on the map measure:
 35° and 44°
 \Rightarrow he may not make it through the channel between the islands

Answer: No

(3 marks)