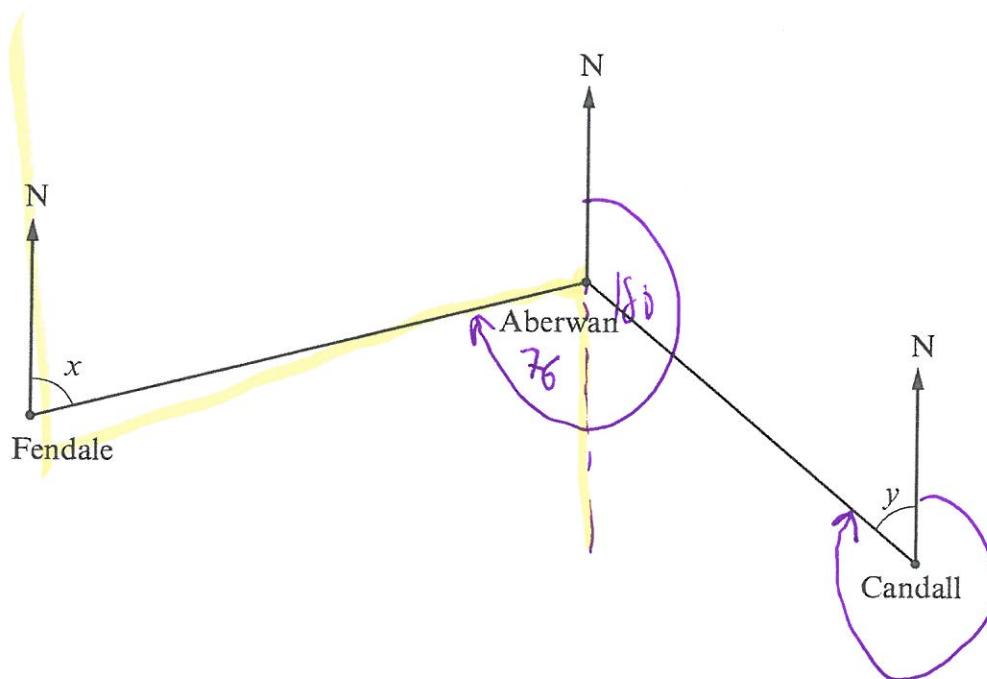


THREE-FIGURE BEARINGS

Examiner only

14. The diagram shows three places Fendale, Aberwan and Candall in the positions that they would appear on a map drawn to scale.



(a) Measure the angles marked x and y on the diagram.

$$x = 76^\circ$$

$$y = 50^\circ$$

[2]

(b) Find the bearing of

(i) Aberwan from Fendale,

$$076^\circ$$

[1]

(ii) Fendale from Aberwan.

$$180 + 76 = 256^\circ$$

[1]

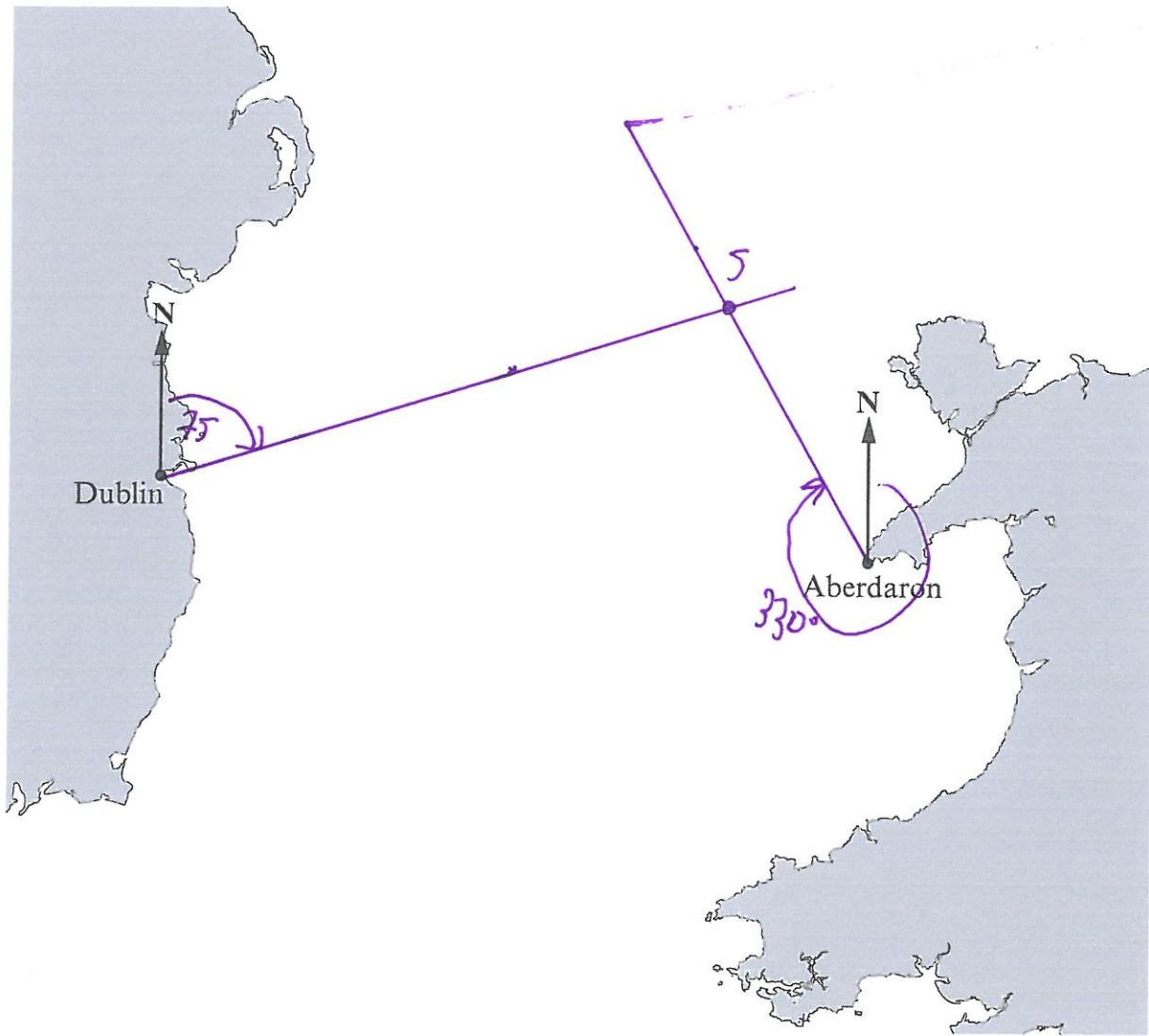
(c) Find the bearing of Aberwan from Candall.

$$360 - 50 = 310^\circ$$

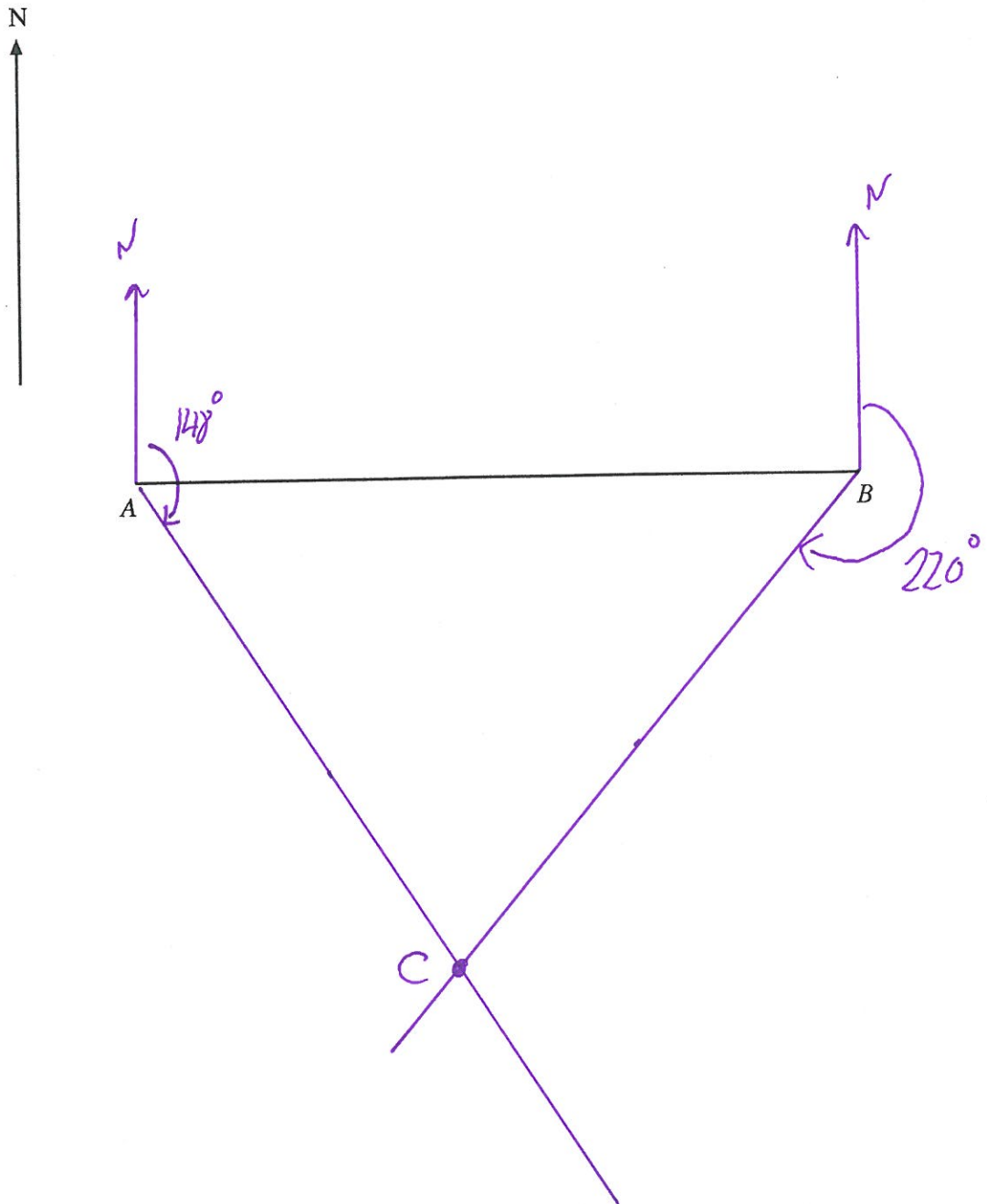
[2]

11. A ship, *S*, is on a bearing of 075° from Dublin and on a bearing of 330° from Aberdaron. By drawing suitable lines on the diagram below, mark the position of *S*.

[3]

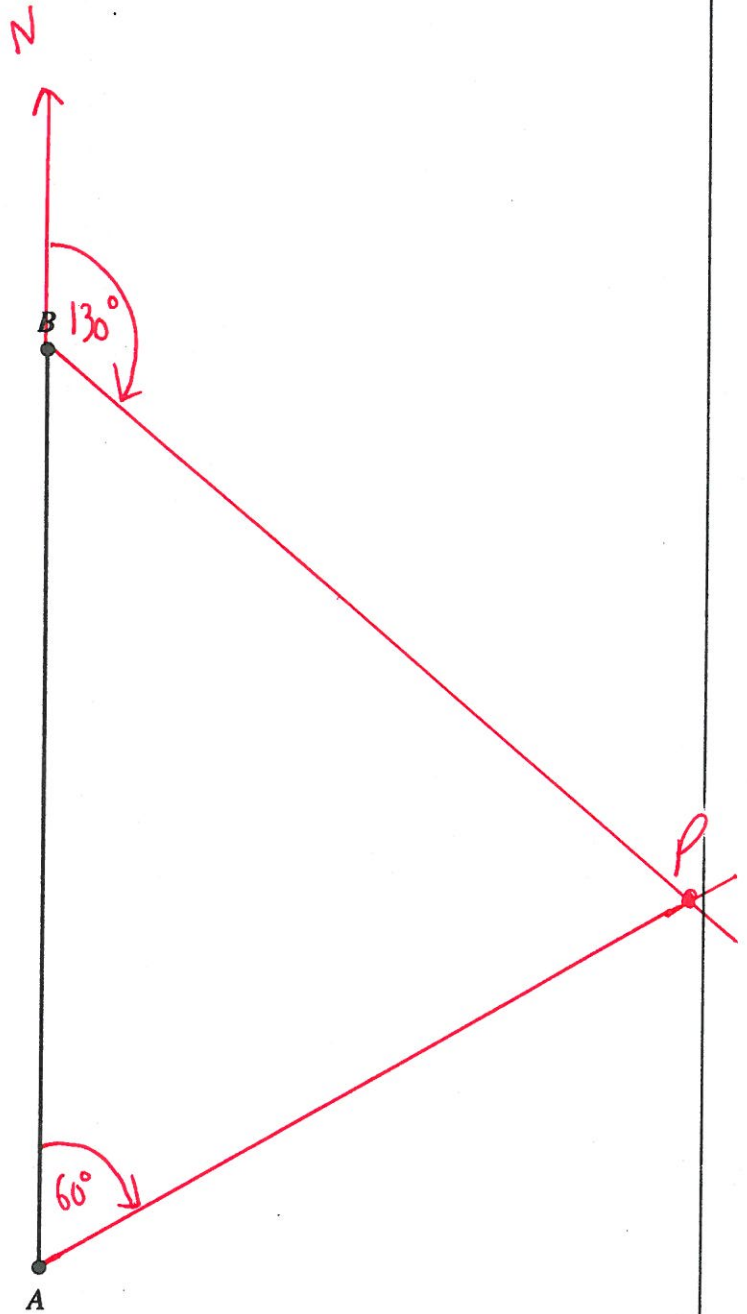


8. A and B are two ports with A due West of B . A ship is at a point C on a bearing of 148° ($S32^\circ E$) from A and 220° ($S40^\circ W$) from B . By drawing suitable lines, mark the position of C on your diagram. [3]

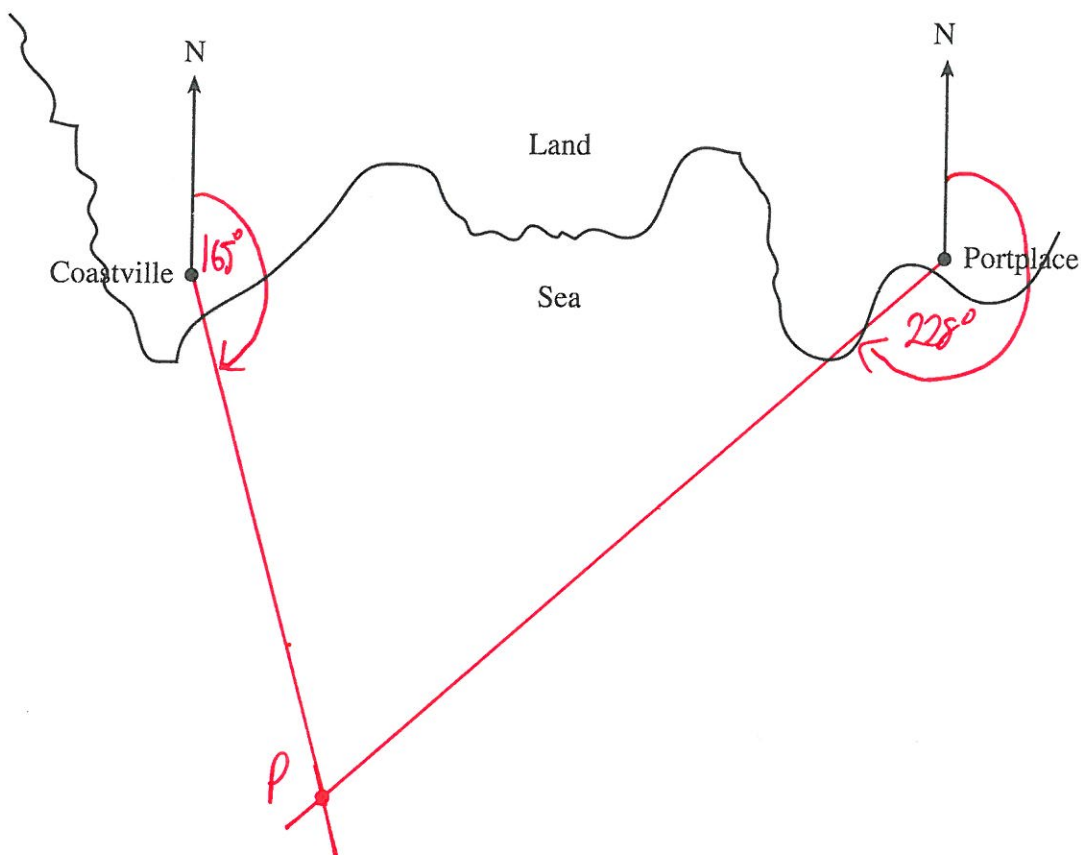


8. The diagram below is drawn to scale. It shows two airports A and B , with B due north of A . An aircraft is on a bearing of 060° ($N60^\circ E$) from A and 130° ($S50^\circ E$) from B . Clearly drawing all necessary lines, mark the position of the aircraft on your diagram.

[3]



9. Coastville and Portplace are two coastguard stations. A ship is on a bearing of 165° (~~815° E~~) from Coastville and on a bearing of 228° (~~848° W~~) from Portplace. Draw these bearings and mark the position of the ship. [3]



10. Write down, in terms of n , the n th term of each of the following sequences.

(a) $\begin{matrix} 1 & 2 & 3 & 4 \\ 7 & 14 & 21 & 28 \end{matrix}$ $7n$

.....
.....

(b) $\begin{matrix} 1 & 2 & 3 & 4 \\ 3 & 8 & 13 & 18 \end{matrix}$ $5n - 2$

[1]

.....
.....

[2]

Turn over.