

Show all working – Calculator allowed.

Marks

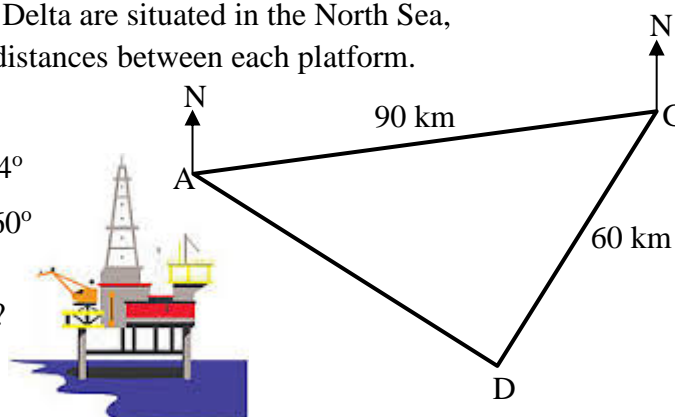
1. Three oil platforms, Alpha, Gamma and Delta are situated in the North Sea, as shown in the diagram along with the distances between each platform.

The bearing of Delta from Alpha is 125°

The bearing of Delta from Gamma is 204°

The bearing of Alpha from Gamma is 260°

Find the bearing of Gamma from Alpha?



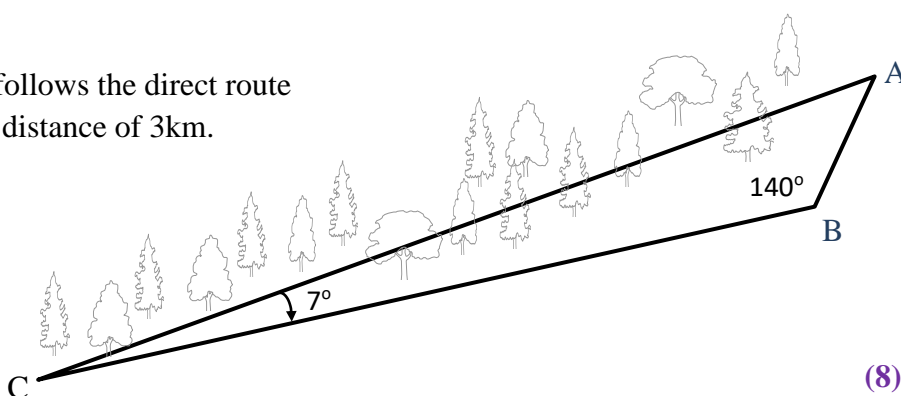
(7)

2. On an orienteering course, Ian follows the direct route through a forest from A to C, a distance of 3km.

Kate follows the road which from A to B to C.

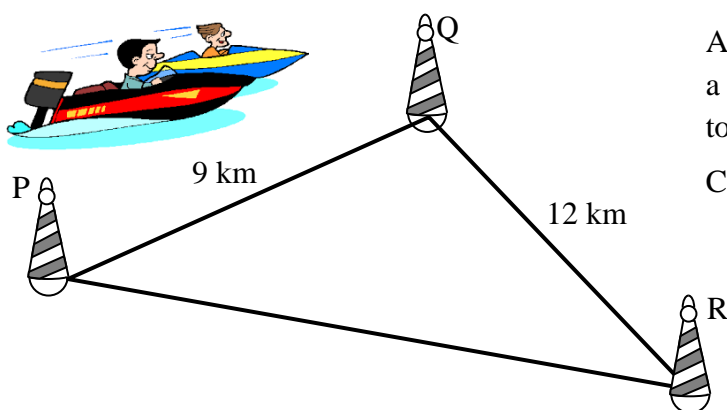
Determine who travels the furthest and by how much?

Explain your answer fully.



(8)

- 3.



A small boat race travels round a set of three buoys to cover a total distance 35km.

Calculate the area of triangle PQR.

(5)

Total Marks: 20