

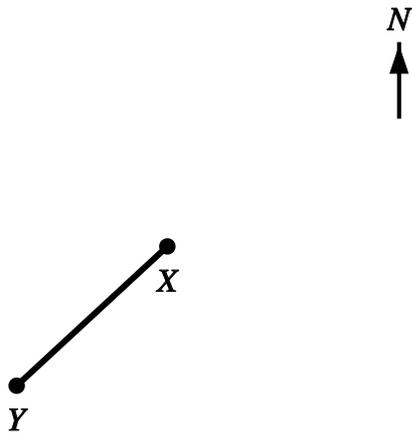
Bearings - advanced

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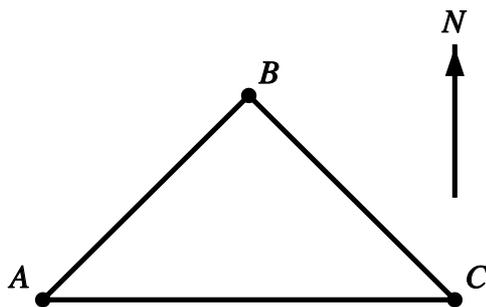
1) Find the bearing from X to Y

[1]



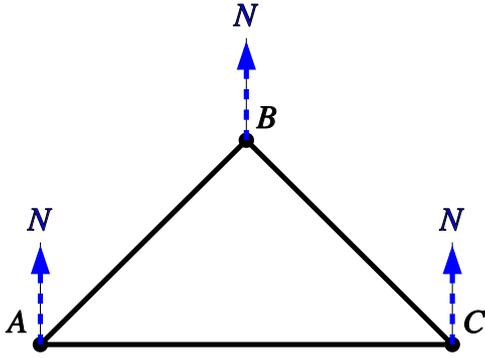
2) In the diagram below, Triangle ABC is isosceles and angle ABC is 90° . Find the bearing of B from A.

[1]



3) In the diagram below, triangle ABC is isosceles and angle ABC is 90° .
Find the bearing from A to C, using 3 figures in your answer.

[1]



4) A lighthouse, L, is 2 km due East of a helicopter, H.
A ship, S, is 4 km due North of the lighthouse, L.

[1]

Find angle LHS, rounded to 1 decimal place.

5) Yeovil is 46.9 km due West of Mortown.
Yeovil is also 40.4 km due South of Gamtown.

[1]

Find the bearing of Mortown from Gamtown, rounded to the nearest degree.

6) Towns A and F are on bearings of 033° and 127° respectively from town B.
BA = 10 km. BF = 20 km.

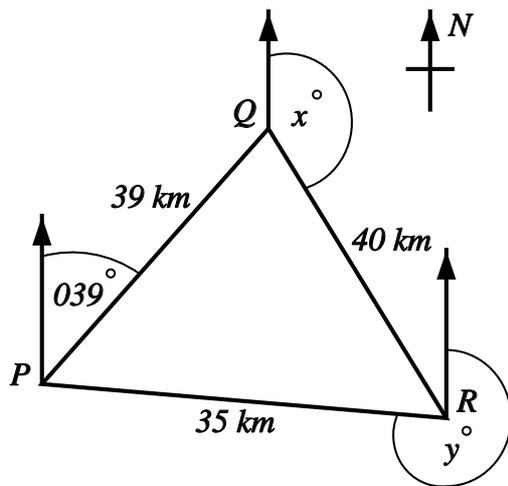
[1]

Find the

a) distance AF b) bearing of F from A

giving your answers to 3 significant figures.

7) A helicopter flies on a bearing of 039° from P to Q, where $PQ = 39$ km. It then flies for 40 km to a point R. Given that R is 35 km from P, calculate the bearings of x and y giving your answers to the nearest whole number.



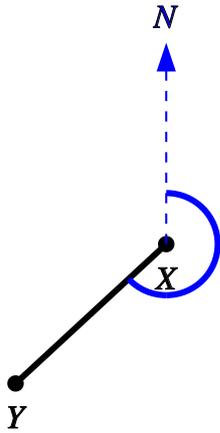
[1]

8) A helicopter flies on a bearing of 020° from S to T, where $ST = 32$ km. It then flies for 33 km to a point U. Given that U is 35 km from S, calculate **a)** the bearing of U from T and **b)** the bearing of S from U, giving your answers to the nearest whole number.

[1]

Solutions for the assessment Bearings - advanced

1) Bearing = 227°



2) Bearing = 045°

3) Bearing = 090°

4) angle LHS = 63.4°

5) Bearing = 131°

6) a) 23.0 km, b) 153°

7) The bearing of x is 166° and y is 284°

8)

a) The bearing of U from T is 135°

b) The bearing of S from U is 259°