

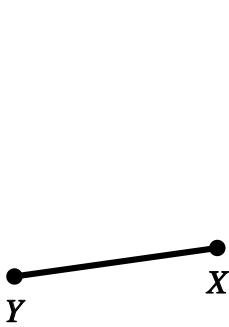
Bearings - advanced

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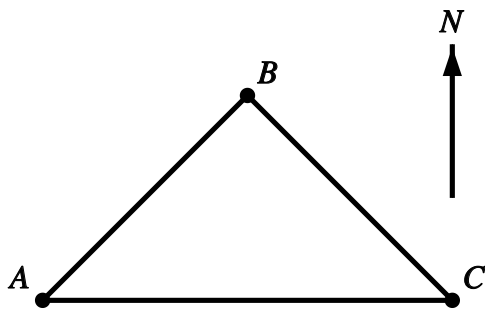
1) Find the bearing of Y from X

[1]



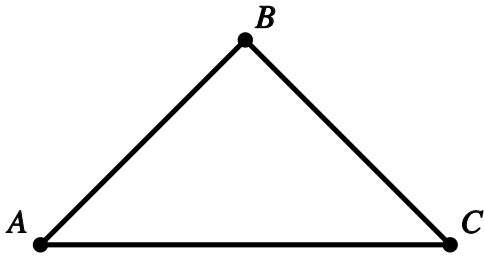
2) In the diagram below, Triangle ABC is isosceles and angle ABC is 90° . Find the bearing from B to A.

[1]



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

[1]



4) A lighthouse, L, is 9.2 km due West of a helicopter, H.
A ship, S, is 8.8 km due North of the lighthouse, L.

[1]

Find angle LHS, rounded to 1 decimal place.

5) Taunton is 30.6 km due West of Portown.
Taunton is also 47.3 km due South of Keytown.

[1]

Find the bearing of Portown from Keytown, rounded to the nearest degree.

6) Towns D and A are on bearings of 046° and 149° respectively from town E.
ED = 15 km. EA = 17 km.

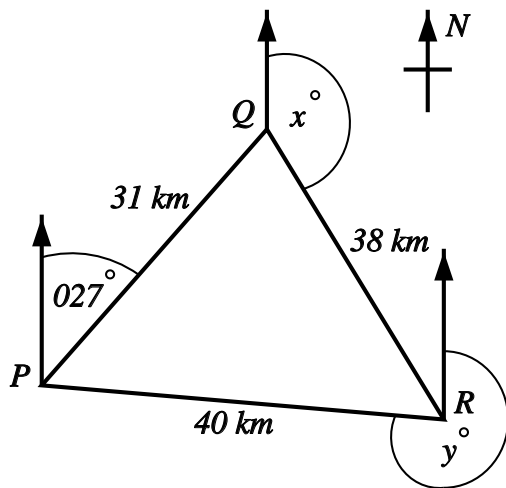
[1]

Find the

a) distance DA b) bearing of A from D

giving your answers to 3 significant figures.

7) A helicopter flies on a bearing of 027° from P to Q, where $PQ = 31$ km. It then flies for 38 km to a point R. Given that R is 40 km from P, calculate the bearings of x° and y° giving your answers to the nearest whole number.



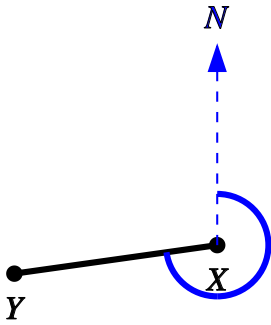
[1]

8) A helicopter flies on a bearing of 026° from A to B, where $AB = 32$ km. It then flies for 40 km to a point C. Given that C is 38 km from A, calculate **a)** the bearing of C from B and **b)** the bearing of A from C, giving your answers to the nearest whole number.

[1]

Solutions for the assessment Bearings - advanced

1) Bearing = 262°



2) Bearing = 225°

3) Bearing = 270°

4) angle LHS = 43.7°

5) Bearing = 147°

6) a) 25.1 km, b) 185°

7) The bearing of x° is 137° and y° is 270°

8)

a) The bearing of C from B is 143°

b) The bearing of A from C is 275°