

(C2-2.9) Name:

Homework Questions 9 – Mixed Problems

Solve the following, give answers to 1dp (*Diagrams are not drawn to scale*)

1. A hiker walks from A to B on a bearing of 060° . After 7km he reaches B and then walks a further 12km on a bearing of 140 to point C
 - a) What is the distance from A to C
 - b) What is the bearing of C from A

2. In triangle ABC, $AB = 10\text{km}$, $BC = 14\text{km}$, $\angle BCA = 35^\circ$
 - a) What is the size of $\angle ABC$
 - b) What is the size of length AC

3. In the triangle ABC, $AB = 9\text{m}$, $BC = 9\text{m}$, $\angle ACB = 62^\circ$.
If D is the midpoint of AC, what is the length of BD

4. Find the size of y

