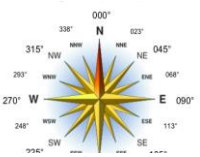
Week 07
Term 3
2017

Learning Brief

MA2: Trigonometry and Applications

Goals



By the end of this week, you should be able to:

- solve problems involving non-right-angled triangles using the sine rule (ambiguous case excluded) and the cosine rule
- solve practical problems involving the trigonometry of right-angled and non-right-angled triangles, including problems involving angles of elevation and depression and the use of bearings in navigation.

Theoretical Components

Remember: you need to finish all the pervious weeks' brief and Investigation. Find these on Google Classroom or Hawkermaths.com

Mathspace Topics for this week:

1. **Angles of Elevation and Depression**

Bearings on Youtube:
https://www.youtube.com/watch?v=tsGIMln59Wc

Practical Components

Check Google Classroom/ABOUT/Resources 2017 S2/WK 7 folder.

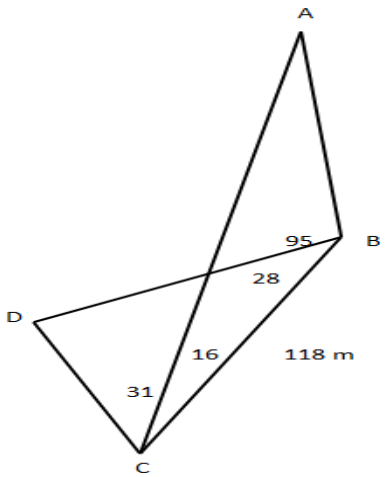
Attempt the following questions.

Show working in your Exercise Book.

Ex1: 4, 6, 7, 8, 11, 14, 16, 17

Investigation

Question 1.



BC= 118 m. Find AD correct your answer to the nearest meter.

(6 marks)

Question 2. A surveyor in a helicopter at an elevation of 1000 meters measures the angle of depression to the far edge of an island as 24 degree, and the angle of depression to the near edge as 31 degree. How wide is the island, to the nearest meter?

(4 marks)

10 marks total

QFO

Quiz/Forum/Other

Revision Quiz on mathspace.