**MCR3U - Unit 3 Blog**

**Trigonometry Real-World Application**

**Name:** _____

**Mark:** _____ / 20

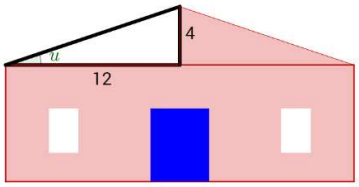
| K/U | A | T | C |
|---|---|---|---|
| _____ / 6 | _____ / 4 | _____ / 6 | _____ / 4 |

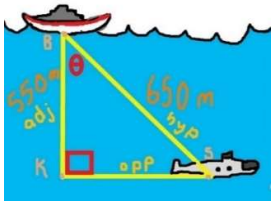
**Introduction:**

Now that we have completed our study of trigonometry, we can explore the application of trigonometry in the real world.

There are countless applications of sinusoid modeling in real life. Some of these applications include:

- measure the height of a building
- measure distance in naval industries
- measure distance in aviation industries
- ……




**Word Count:** Around 400 words

**Submission Checklist:** Your written blog in the format of **a doc or pdf** that included all the required elements.

**Blog Elements:**

1. [A] A brief introduction of trigonometry and its applications **(at least two)** in the real world (150 words)
2. Discuss a specific real-life scenario that requires people to solve right triangles using primary trig ratios. In this part, you're expected to: (125 words)
   - [K] Draw a diagram of your chosen example problem;
   - [T] Include a **detailed mathematical solution** (non-text, no included in the word count) to show how you would solve the triangle;
   - [C] Explain your calculation/thinking process:
     - Are you trying to determine a missing angle or side?
     - What do you need to measure (any angles or sides) to carry out the calculation?
3. Give a specific example of the application of the oblique triangle and the sine/cosine law (125words)
   - [K] Draw a diagram of your chosen example problem;
   - [T] Include a **detailed mathematical solution** (non-text, no included in the word count) to show how you would solve the triangle;
   - [C] Explain your calculation/thinking process:
     - Are you trying to determine a missing angle or side?
     - What do you need to measure (any angles or sides) to carry out the calculation?