Mathematics Clues and information

The details for the trigonometry obtained from: <https://www.mathsisfun.com/sine-cosine-tangent.html>

Adjacent is always next to the angle

And Opposite is opposite the angle

Hypotenuse is the long line.

Every trigonometry problem is are based on a Right-Angled Triangle. The main functions used in a trigonometry are Sine, Cosine and Tangent which are shortened to Sin, Cos, Tan.

Clue:

Sin θ = Opposite/Hypotenuse

Cos θ = Adjacent/Hypotenuse

Tan θ = Opposite/Adjacent

Looking for the height of the building (opposite the angle), and since we have the Length (Adjacent – next to the angle). We would use the Tan function.

Tan θ = Tan 82 = 7.115 (Value rounded to 3 decimal place)