Question 1: Easy

Using the Sine Law, calculate the length of side b.

Answer:

27.14m = b

Working:
Firstly we write the Sine Law.

$\frac{a}{SinA}$ = $\frac{b}{SinB}$

Then we input our variables:

We will use 14m for side a. This will mean angle A is $29ᶿ$ as it is the angle opposite to side a.
Additionally, since the angle $70ᶿ$ is opposite to side b, it will be defined as angle B.

$\frac{14m}{Sin29ᶿ}$ = $\frac{b}{Sin70ᶿ}$

$\frac{14m}{Sin29ᶿ}$ \* $Sin70$ = b

27.14m = b