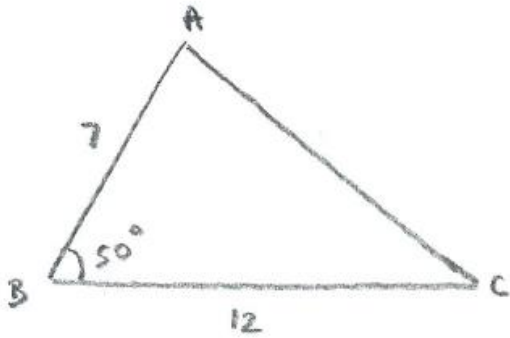


Trigonometry Q11 (30/6/23)

For the triangle below, what is the best strategy for finding angle A ?



Solution

Although there is only one way of drawing the triangle, we want to avoid using $\sin A$, as A is close to 90°

(and $\sin x = \sin (180^\circ - x)$)

But we could find C instead, and subtract $B + C$ from 180° .

We can use the Cosine rule to find AC , and then the Sine rule to find C , and hence A .

Alternatively, having found AC , we could use the Cosine rule again to find A (there is never any ambiguity when using the Cosine rule).