8.

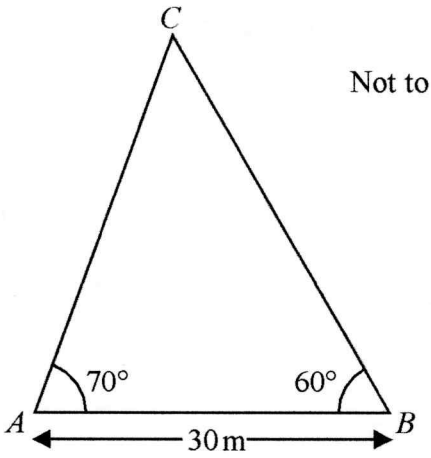

Figure 1

A triangular lawn is modelled by the triangle ABC, shown in Figure 1. The length AB is to be 30 m long.

Given that angle $BAC = 70°$ and angle $ABC = 60°$,

(a) calculate the area of the lawn to 3 significant figures. **(4)**

(b) Why is your answer unlikely to be accurate to the nearest square metre? **(1)**