

(C2-2.5a) Name:

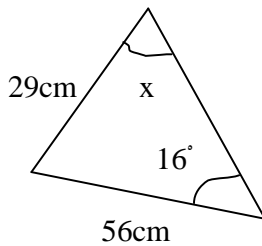
Homework Questions 5 – Finding an Unknown Angle Using the Sine Rule

Solve the following problems using the sine rule, give answers to 1dp (*The diagrams are not drawn to scale*)

1. In the Triangle RST, $RS = 10\text{m}$, $TS = 8\text{m}$, $\angle RTS = 55^\circ$. Find the size of $\angle TRS$

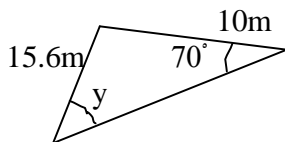
40.9m

2. Find the size of angle x



32.2cm

3. Find the size of angle y



37.0m

4. In the Triangle ABC, $AC = 9\text{cm}$, $BC = 18\text{cm}$, $\angle ABC = 26^\circ$. Find the size of $\angle BAC$

61.3cm

5. In the Triangle DEF, $DE = 29\text{cm}$, $DF = 15\text{cm}$, $\angle DFE = 68^\circ$. Find the size of $\angle DEF$

28.7cm

6. In the Triangle ABC, $AB = 47\text{m}$, $AC = 32\text{m}$, $\angle ABC = 29^\circ$. Find the size of $\angle ACB$

45.4m