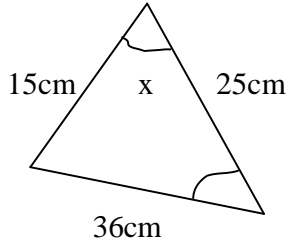


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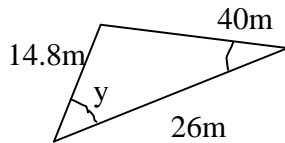
Homework Questions 8 – Finding an Unknown Angle Using the Cosine Rule

Solve the following, give answers to 1dp. (the diagrams are not drawn to scale)

1. Find the size of angle x



2. Find the size of angle y



3. In Triangle ABC, $AB = 19\text{cm}$, $AC = 15\text{cm}$ and $BC = 29\text{cm}$.
What is the size of $\angle ABC$

4. In Triangle DEF, $DE = 21\text{m}$, $EF = 26\text{m}$ and $DF = 38\text{m}$.
What is the size of $\angle DFE$

5. In Triangle RST, $RS = 65\text{cm}$, $ST = 72\text{cm}$ and $RT = 82\text{cm}$.
What is the size of $\angle RST$

6. In Triangle ABC, $AB = 29\text{cm}$, $AC = 26\text{cm}$ and $BC = 35\text{cm}$.
What is the size of $\angle ACB$