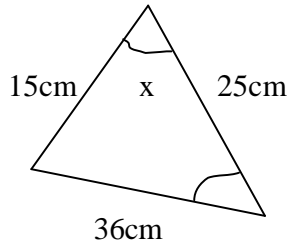


(C2-2.8a) Name:

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

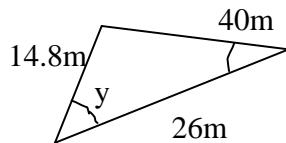
Solve the following, give answers to 1dp. (the diagrams are not drawn to scale)

1. Find the size of angle x



126.5°

2. Find the size of angle y



156.3°

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

27.6°

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

31.8°

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

73.3°

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

54.4°