

(C2-2.4) Name:

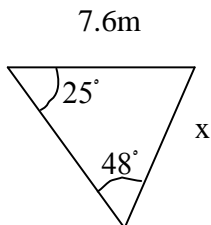
Homework Questions 4 – Finding an Unknown Side Using the Sine Rule

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

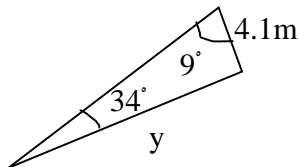
1. In the Triangle ABC, $AB = 7\text{cm}$, $\angle BAC = 16^\circ$ $\angle ACB = 26^\circ$. Find the length of BC

2. In the Triangle DEF, $DE = 9\text{cm}$, $\angle EDF = 25^\circ$ $\angle DFE = 72^\circ$. Find the length of DF

3. Find the length of x



4. Find the length of y



5. In the Triangle RST, $RT = 30\text{cm}$, $\angle STR = 65^\circ$ $\angle RST = 18^\circ$. Find the length of RS

6. In the Triangle ABC, $BC = 19\text{cm}$, $\angle BAC = 63^\circ$ $\angle ABC = 39^\circ$.

Find the length of AC