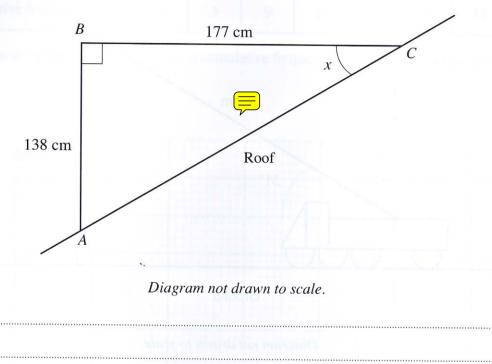
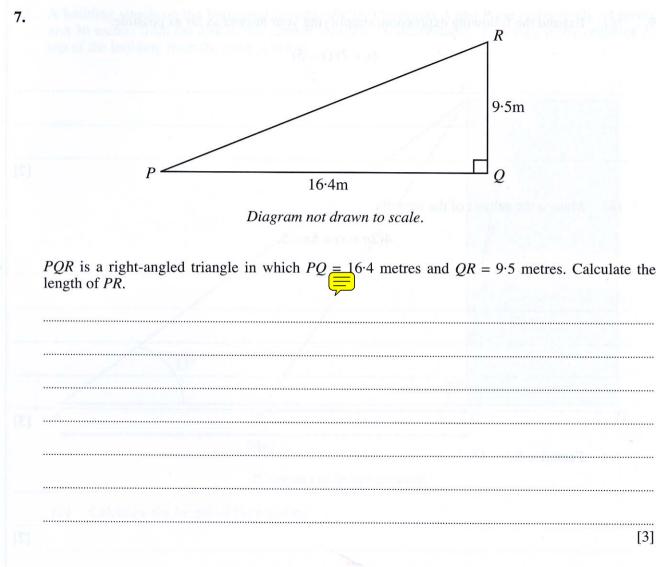
11. The diagram shows the side view of a dormer window on the roof of a house. The lengths AB and BC are 138 cm and 177 cm respectively. Calculate the angle which the roof makes with the horizontal, marked as x on the diagram.







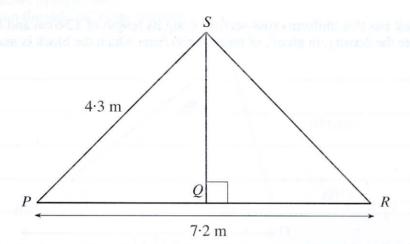


Diagram not drawn to scale.



PQRS represents the symmetrical cross-section of the roof of a house, where SQ is perpendicular to PR and Q is the mid-point of PR. The width of the house, PR, is $7\cdot 2$ m and the length of the rafter, PS, is $4\cdot 3$ m. Calculate the height SQ.

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5. The diameter of a circle, AB, is of length 8.7 cm, BC has length 5.4 cm and $ACB = 90^{\circ}$. Calculate the length of AC.

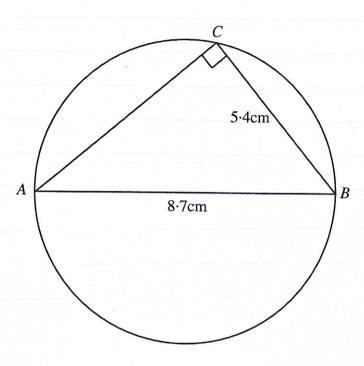


Diagram not drawn to scale.

