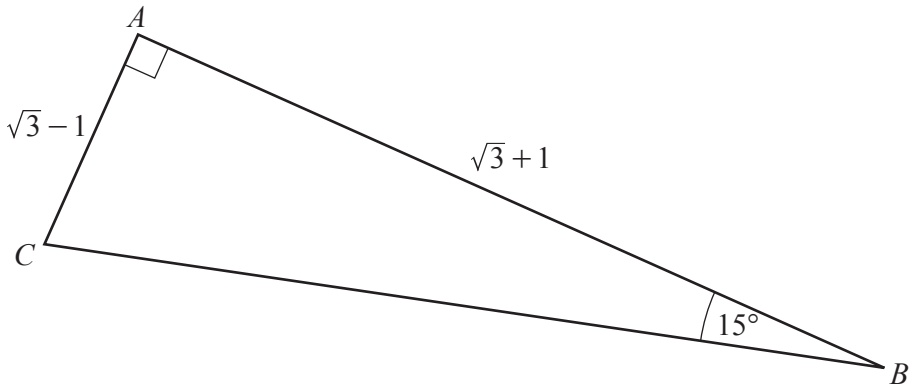
6 DO NOT USE A CALCULATOR IN THIS QUESTION.

In this question all lengths are in centimetres.



In the diagram above $AC = \sqrt{3}-1$, $AB = \sqrt{3}+1$, angle $ABC = 15°$ and angle $CAB = 90°$.

(a) Show that $\tan 15° = 2-\sqrt{3}$. [3]

(b) Find the exact length of BC. [2]