**22** The diagram shows triangle $ABC$

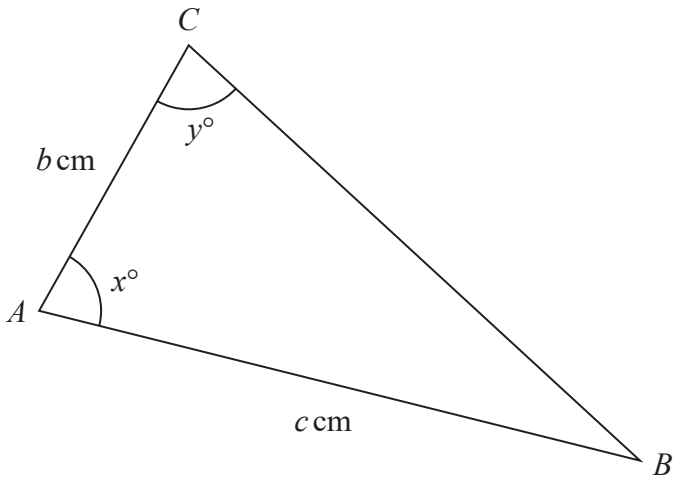



Diagram **NOT** accurately drawn

$c = 11.5$ correct to one decimal place
$x = 80$ correct to the nearest whole number
$y = 75$ correct to the nearest whole number

Calculate the upper bound for the value of $b$
Show your working clearly.
Give your answer correct to 3 significant figures.

.....

**(Total for Question 22 is 4 marks)**

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