WJEC June 2018 Q6

You will be assessed on the quality of your written communication in this question.

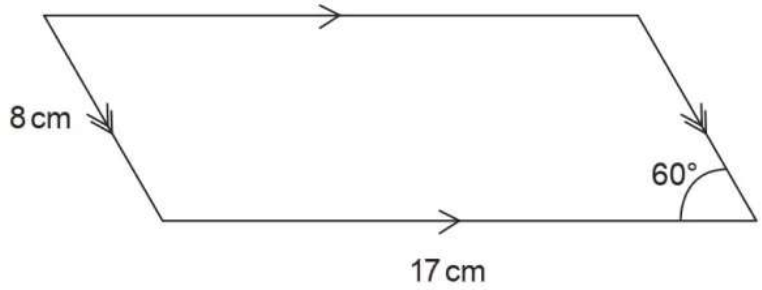

Diagram not drawn to scale

You **must not** use your calculator in answering this question.

Calculate the area of the parallelogram in cm^2.
Give your answer in the form $a\sqrt{b}$. [6]

WJEC June 2017 Q9

Do not use a calculator to answer this question.
All working must be shown.

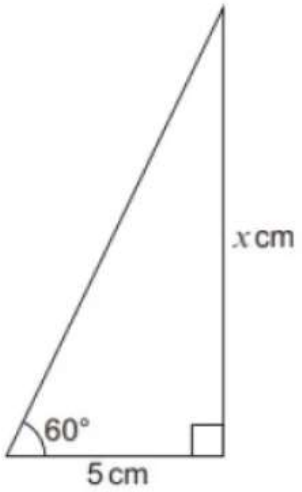

Diagram not drawn to scale

Calculate the value of x.
Give your answer in surd form.
You must show all your calculations. [2]

WJEC June 2016 Q9

Do **not** use a calculator to answer any part of this question.
You must show all your working.

(a) Simplify $\frac{\cos 45^\circ}{\sin 45^\circ}$. [1]

(b) Express $\frac{\sin 30^\circ}{\tan 60^\circ}$ in the form $\frac{\sqrt{a}}{b}$, where a and b are integers to be found. [2]

(c) $(\sin 60^\circ)^2$ is written $\sin^2 60^\circ$.
Simplify $\sin^2 60^\circ + \tan^2 45^\circ$. [2]

WJEC June 2015 Q10

Do not use a calculator to answer this question.
All working must be shown.

(a) Use fractions and surds to show that $(\sin 30^\circ)^2 + (\cos 30^\circ)^2 = 1$.
You must show all your calculations. [2]

(b) Use fractions and surds to evaluate $5\tan 45^\circ + 2\sin 60^\circ + \tan 60^\circ$.
You must show all your calculations and simplify your answer. [3]

WJEC June 2011 Q6

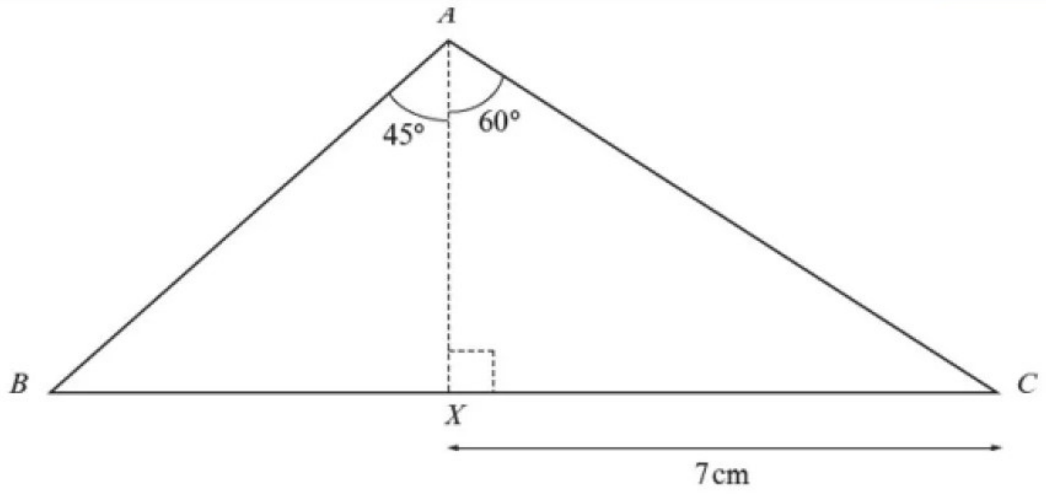

Diagram not drawn to scale

Find the length of AB in surd form.

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[5]

WJEC June 2014 Q9

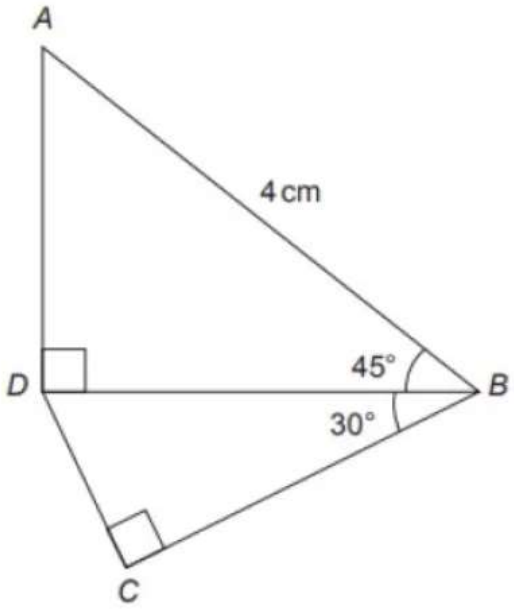

Diagram not drawn to scale

Calculate the length of *BC*.
Give your answer in surd form.
Do not use your calculator to answer this question.
You must show all your working. [7]