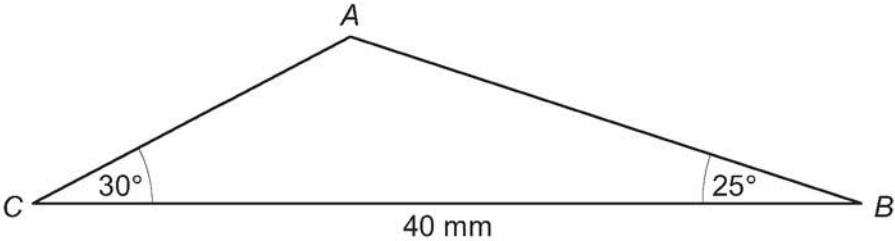


5

A triangular prism has a cross section  $ABC$  as shown in the diagram below.



Angle  $ABC = 25^\circ$

Angle  $ACB = 30^\circ$

$BC = 40$  millimetres.

The length of the prism is 300 millimetres.

Calculate the volume of the prism, giving your answer to three significant figures.

**[4 marks]**