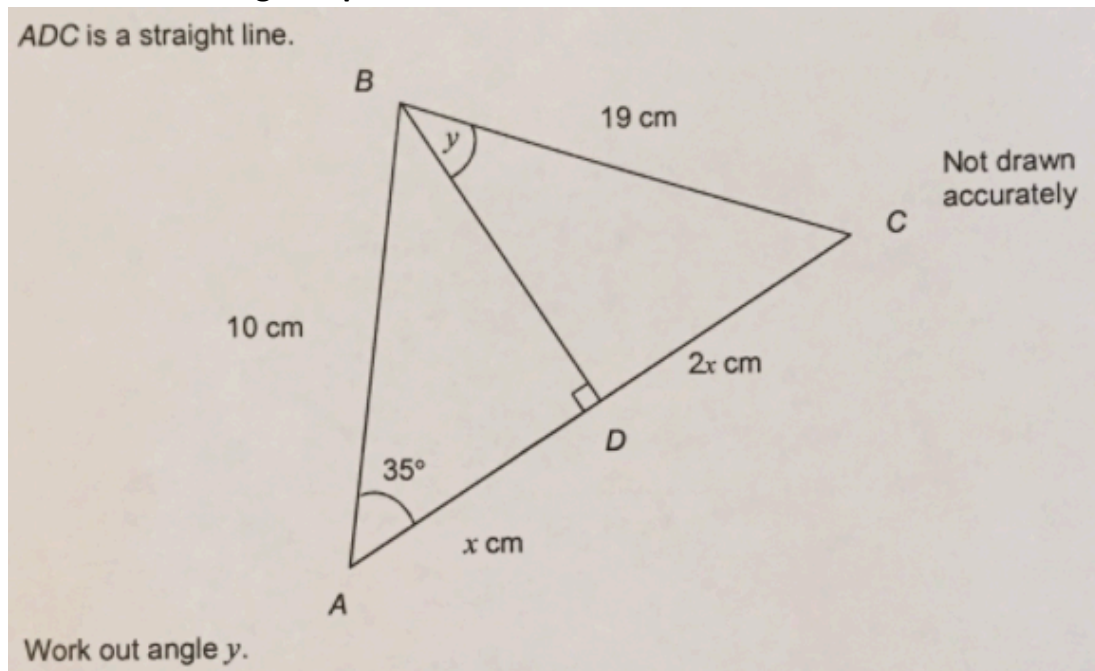


One Question – Five Answers

This question was set on a test. There is a problem with it, in that more pieces of information than is necessary have been given, but they cannot all be correct!

Version 0: The original question



There are six pieces of information in the question. The six alternative versions of the question below remove one of the pieces of information each time. They are:

Version 1: Remove the 19cm

Version 2: Remove the right angle

Version 3: Remove the 35°

Version 4: Remove the 10cm

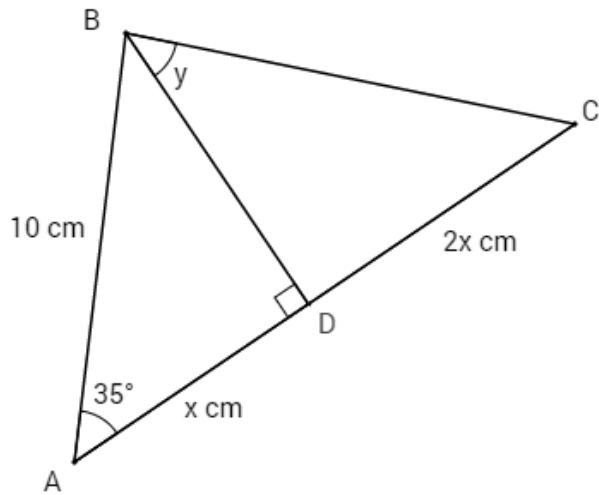
Version 5: Remove the x and the $2x$

Version 6: Remove the need for ADC to be a straight line

Can you predict which two versions will give the same value for angle y ?

Version 1: Remove the 19cm

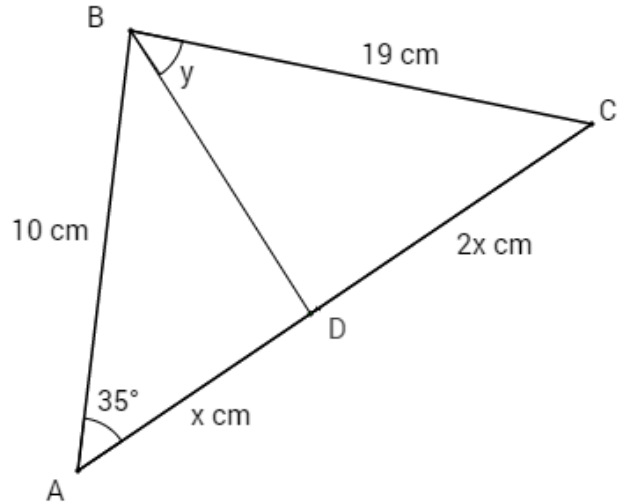
ADC is a straight line.



Work out angle y .

Version 2: Remove the right angle

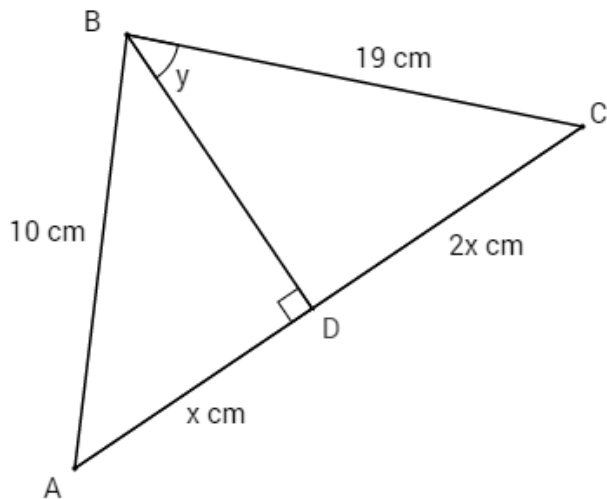
ADC is a straight line.



Work out angle y .

Version 3: Remove the 35°

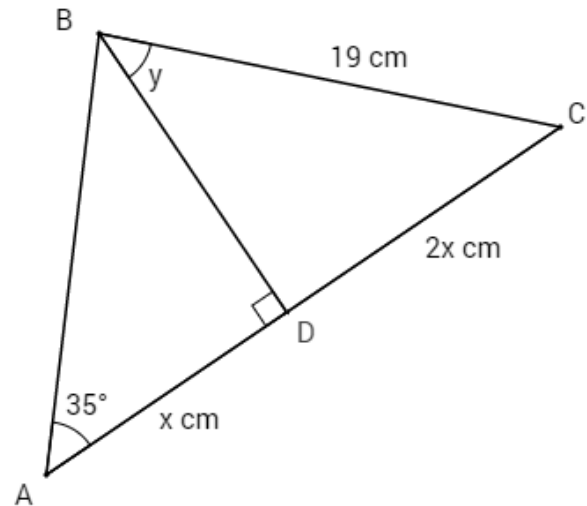
ADC is a straight line.



Work out angle y .

Version 4: Remove the 10cm

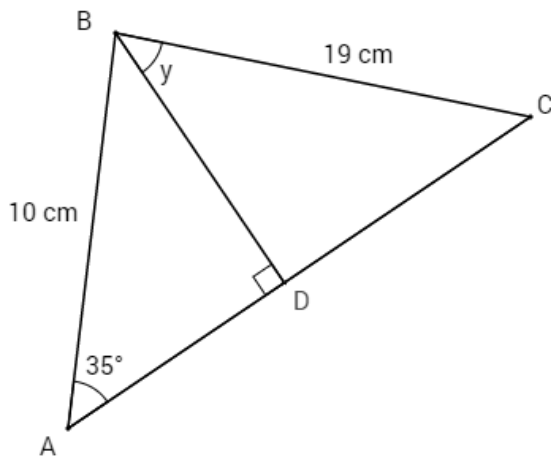
ADC is a straight line.



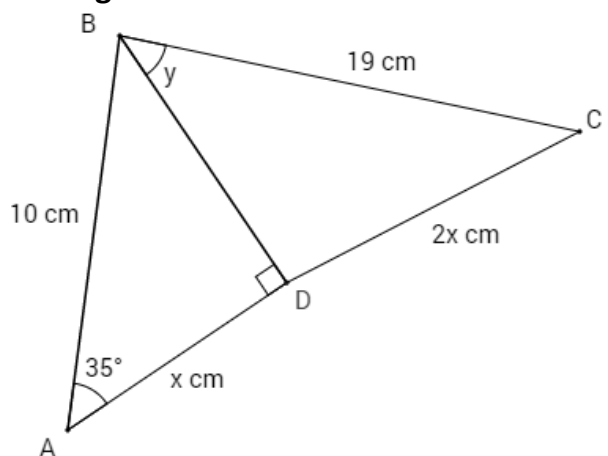
Work out angle y .

Version 5: Remove the x and the $2x$

ADC is a straight line.



Work out angle y .

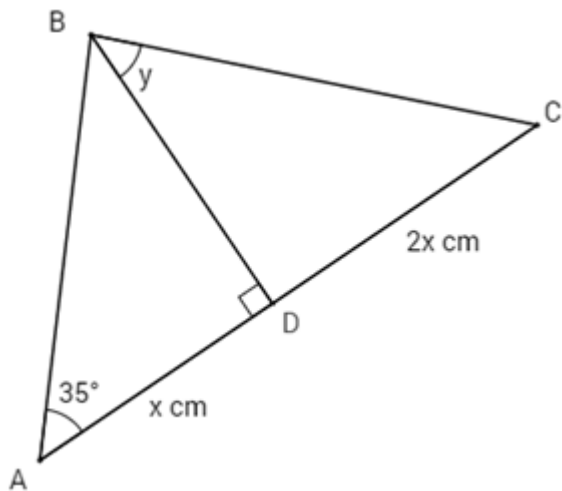
Version 6: Remove the need for ADC to be a straight line

Work out angle y .

Which *two* pieces of information can be removed and still leave a question that can be answered?

Version 7: Remove the 10cm and the 19cm

ADC is a straight line.



Work out angle y .