

1. Phillip says that triangle  $ABC$  is isosceles.

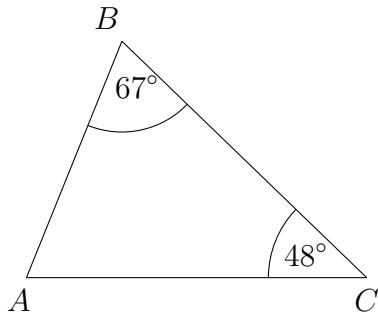


Diagram NOT  
accurately drawn.

Is he correct?

You must give a reason for your answer.

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2.

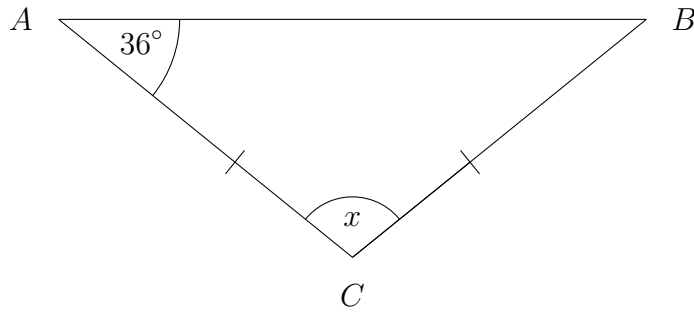


Diagram NOT  
accurately drawn.

(i) Work out the value of  $x$ .

$x = \dots\dots\dots$

(ii) Give a reason for your answer

.....  
.....

3.

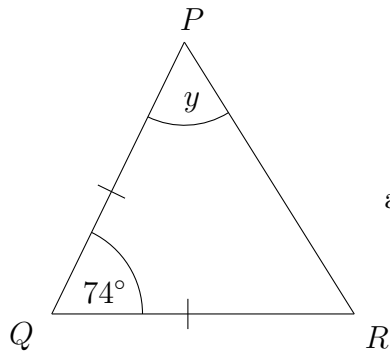


Diagram NOT accurately drawn.

(i) Work out the value of  $y$ .

$y = \dots\dots\dots$

(ii) Give a reason for your answer

.....

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4.

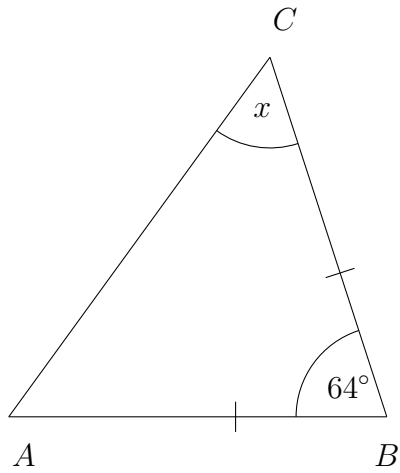


Diagram NOT  
accurately drawn.

(i) Work out the value of  $x$ .

$x = \dots\dots\dots$

(ii) Give a reason for your answer

.....

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## Answers

1. no, angle  $BAC = 65^\circ$  and angle  $ABC \neq$  angle  $BAC$  and angles in a triangle add up to 180 degrees
2. (i) 108 (ii) angles in a triangle add up to 180 degrees
3. (i) 53 (ii) angles in a triangle add up to 180 degrees
4. (i) 58 (ii) angles in a triangle add up to 180 degrees