

1. Maksim says that triangle PQR is isosceles.

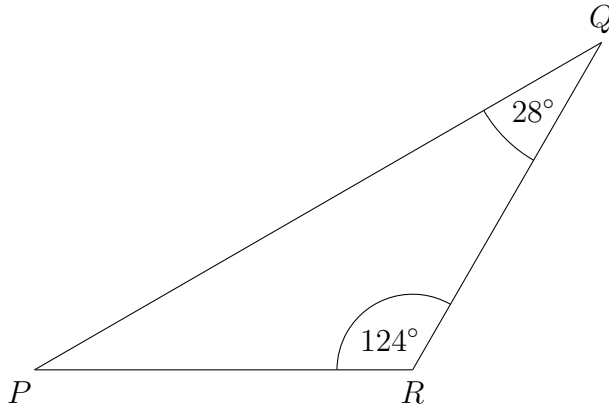


Diagram NOT accurately drawn.

Is he correct?

You must give a reason for your answer.

.....

.....

2.

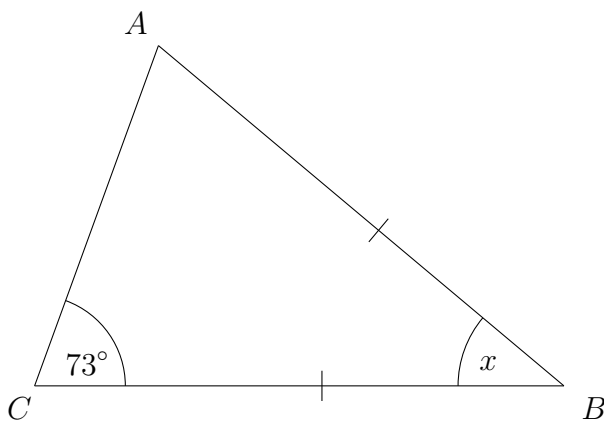


Diagram NOT accurately drawn.

(i) Work out the value of x .

$x = \dots\dots\dots$

(ii) Give a reason for your answer

.....

.....

Turn over for more questions and answers

3.

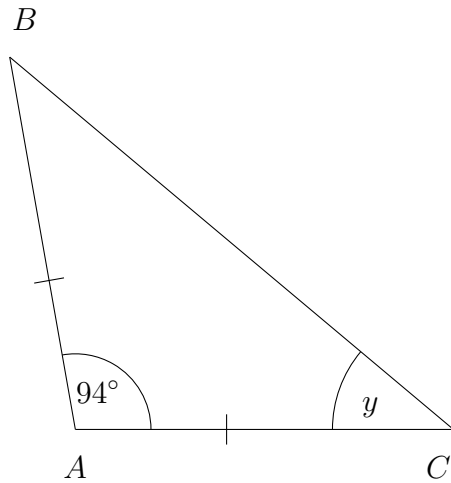


Diagram NOT accurately drawn.

(i) Work out the value of y .

$y = \dots\dots\dots$

(ii) Give a reason for your answer

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4.

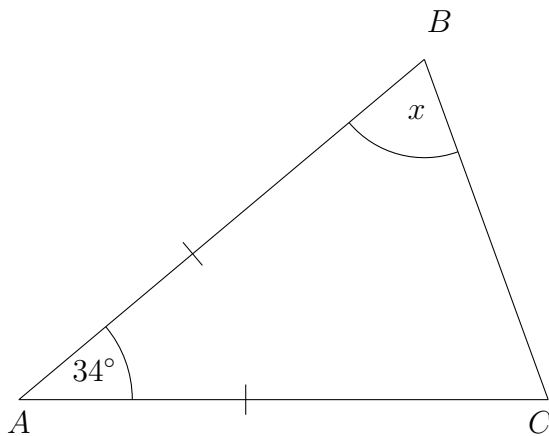


Diagram NOT accurately drawn.

(i) Work out the value of x .

$x = \dots\dots\dots$

(ii) Give a reason for your answer

.....

Answers

Q1: yes: because angle $RQP =$ angle RPQ and angles in a triangle add up to 180 degrees;

Q2: (i) 34 (ii) angles in a triangle add up to 180 degrees;

Q3: (i) 43 (ii) same reason; Q4: (i) 73 (ii) same reason