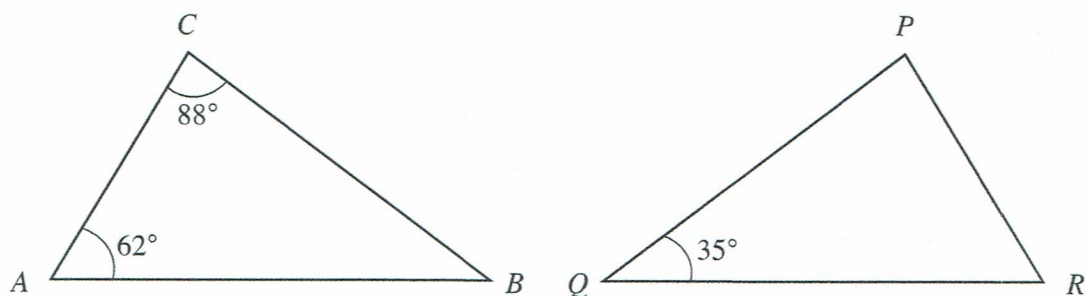


SIMILAR TRIANGLES

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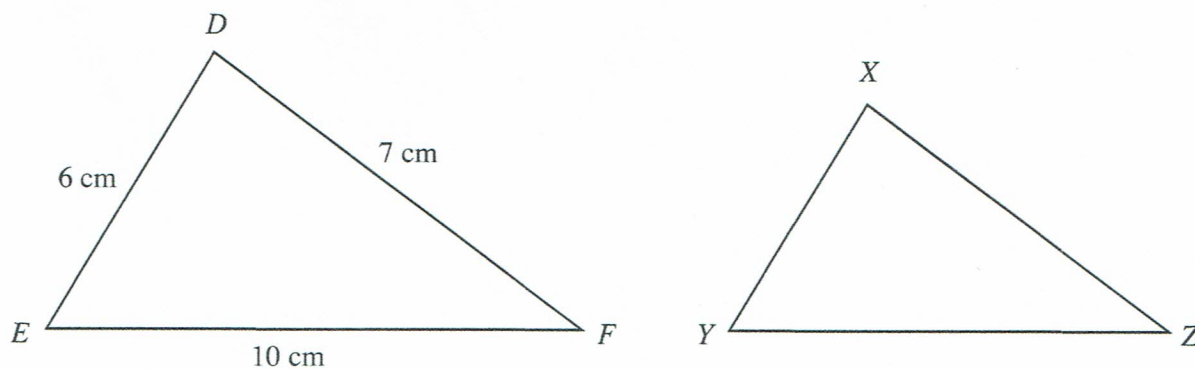
12. (a) Explain clearly why the following triangles are **NOT** similar.



Diagrams not drawn to scale.

[2]

- (b) Triangles DEF and XYZ are similar. Their corresponding sides are in the ratio 4:3. Calculate the length of YZ.

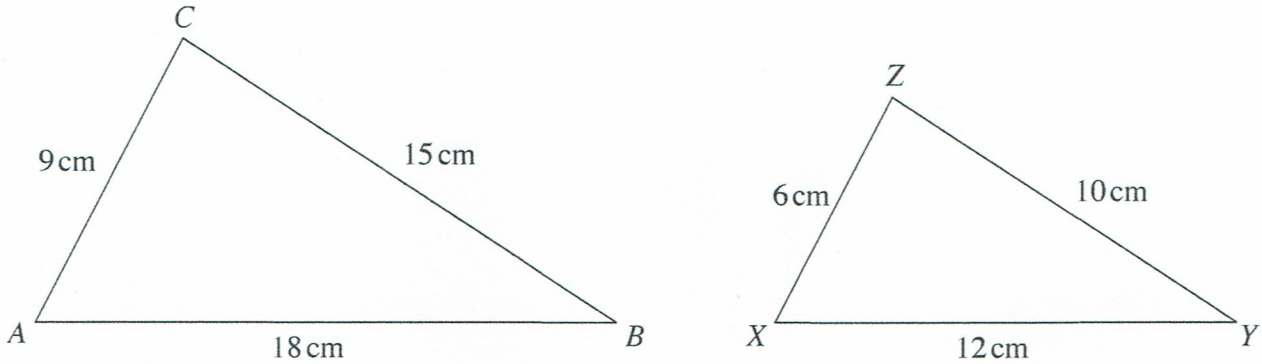


Diagrams not drawn to scale.

[2]

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16. (a) Explain clearly why triangles ABC and XYZ are similar.



Diagrams not drawn to scale.

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[2]

- (b) Triangle PQR , in which $PQ = 15\text{ cm}$, is similar to both triangles ABC and XYZ . Calculate the length of QR .

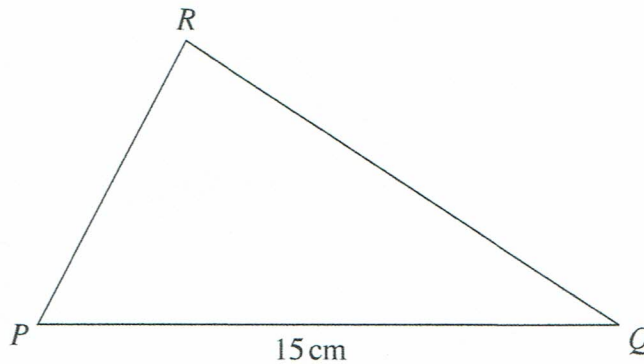


Diagram not drawn to scale.

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[2]

Turn over.

12. The diagram shows two similar triangles, ABC and PQR .

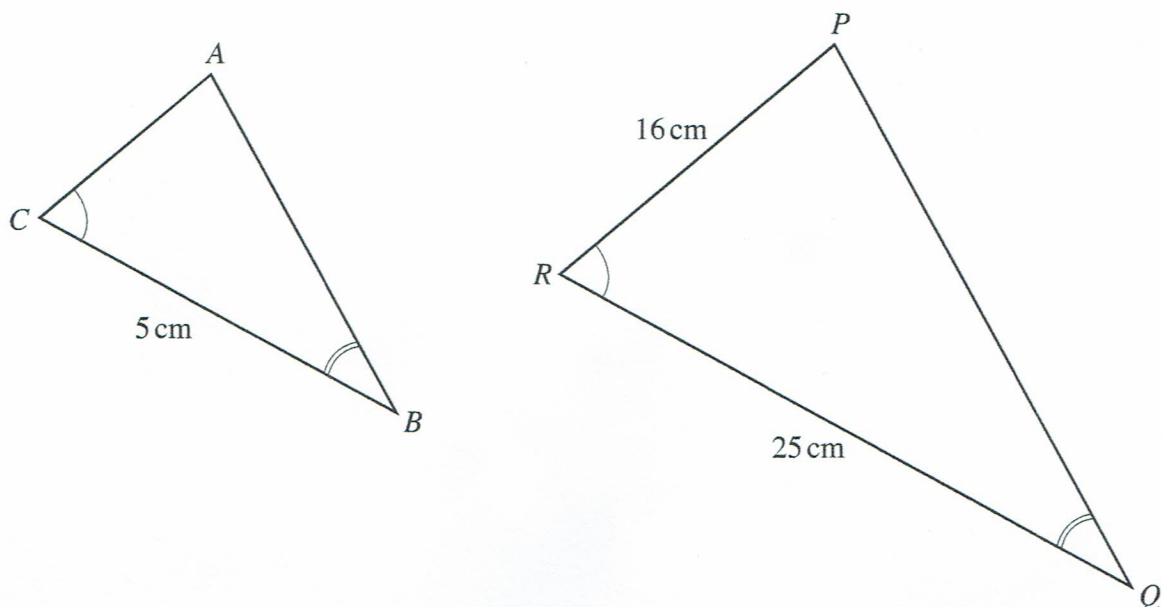


Diagram not drawn to scale.

Given that $CB = 5$ cm, $RQ = 25$ cm and $PR = 16$ cm, find the length of AC .

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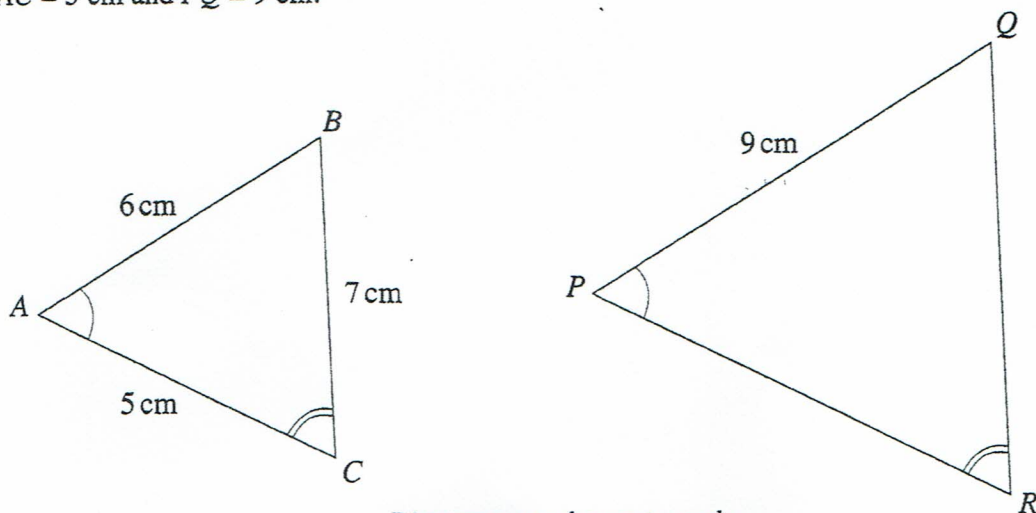
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16. Triangles ABC and PQR are similar, with $\hat{BAC} = \hat{QPR}$, $\hat{BCA} = \hat{QRP}$, $AB = 6$ cm, $BC = 7$ cm, $AC = 5$ cm and $PQ = 9$ cm.



Diagrams not drawn to scale.

Showing all your working, find the length of QR .

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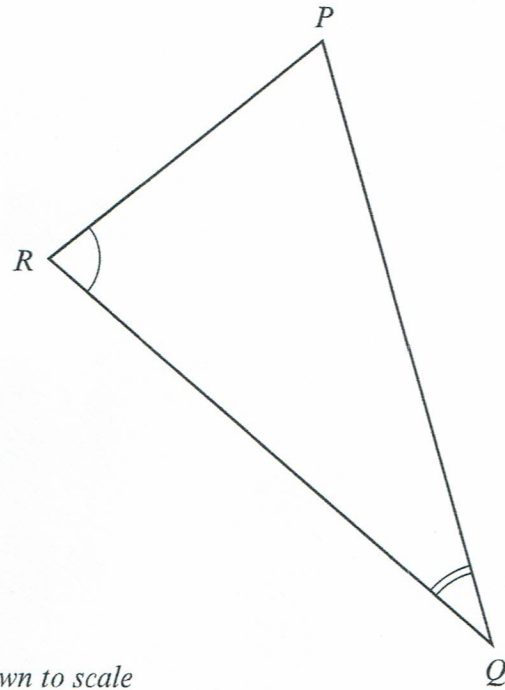
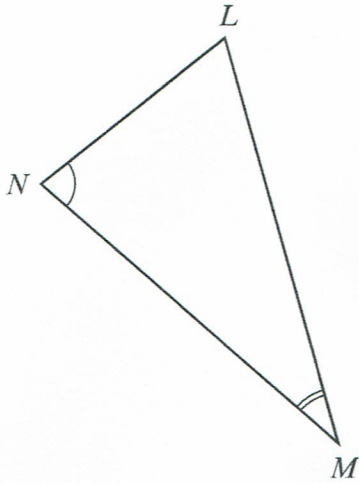
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9. Triangles LMN and PQR are similar.



Diagrams not drawn to scale

$LM = 3$ cm, $MN = 2.5$ cm, $PR = 3.6$ cm and $PQ = 5.4$ cm.
Showing all your working, find the length of

- (a) RQ ,

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[2]

- (b) LN .

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