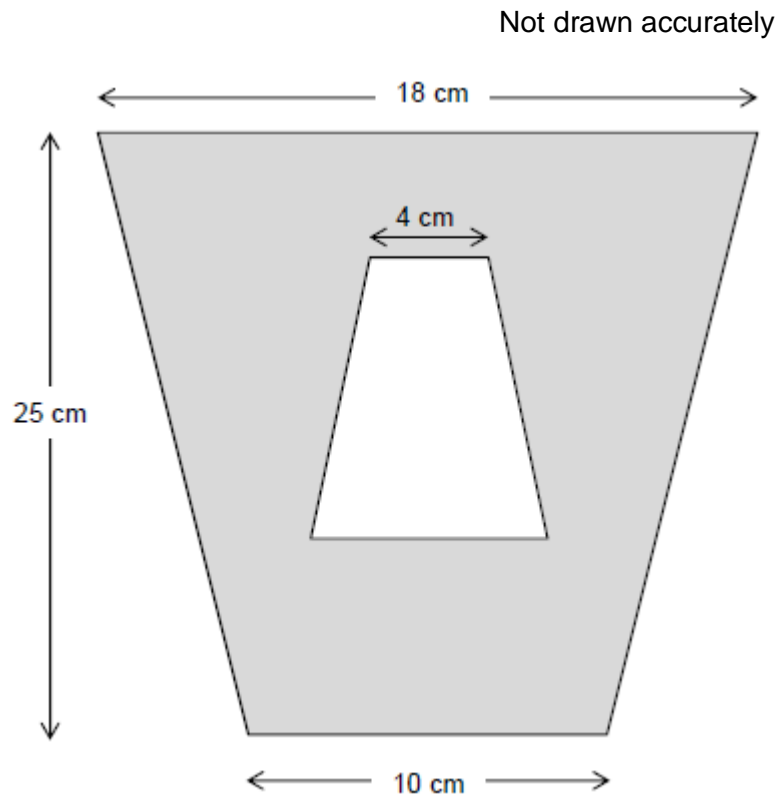**Q1.**

A pattern is made from two **similar** trapeziums.

Not drawn accurately

Show that the shaded area is 294 cm²

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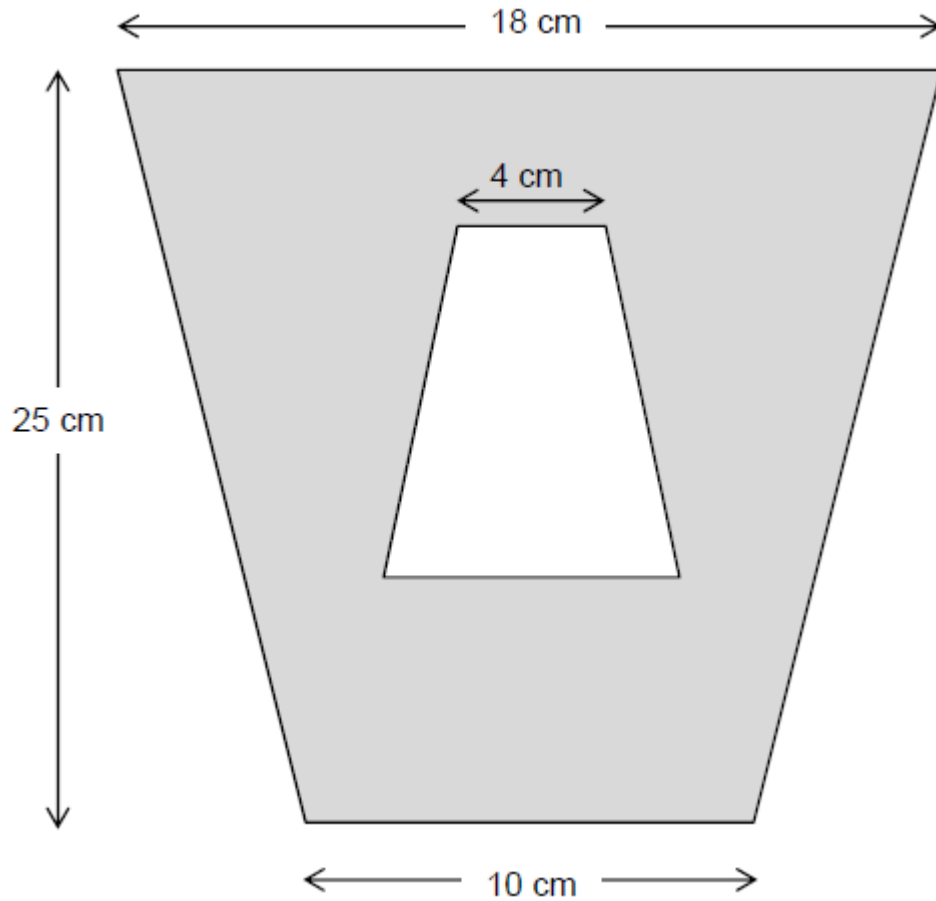
(Total 4 marks)

Q2.

(a)   A pattern is made from two **similar** trapeziums.

Not drawn accurately

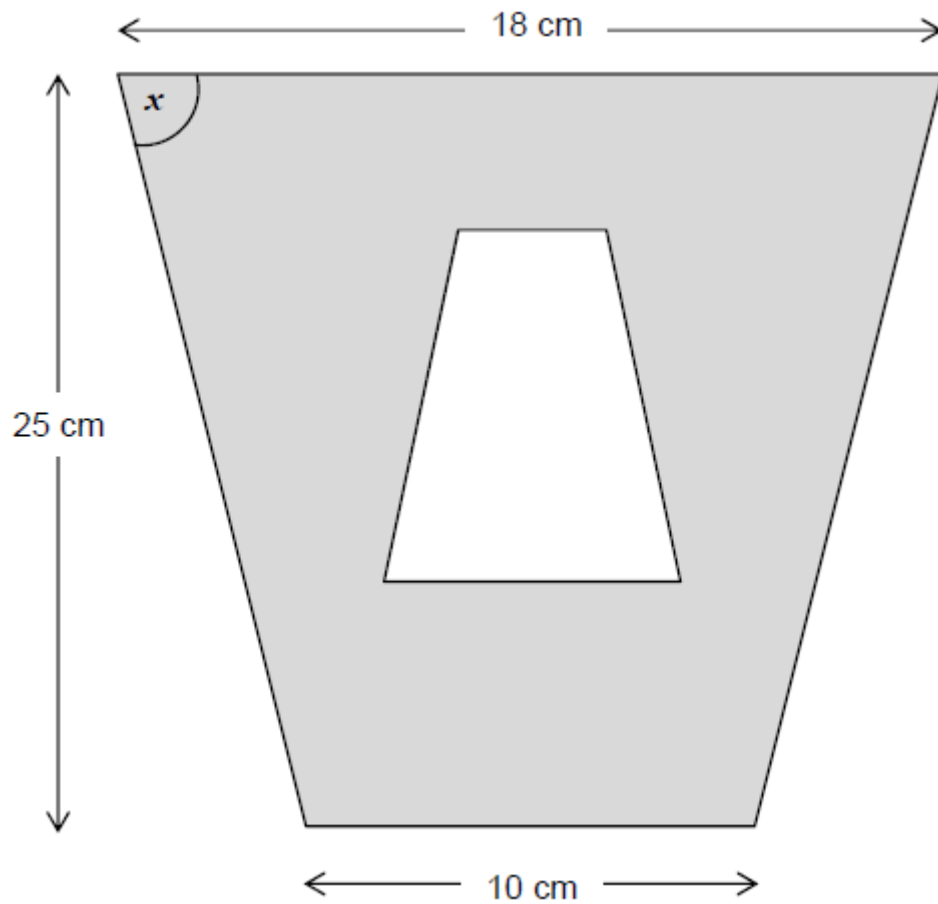Show that the shaded area is 294 cm²

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(4)

(b)   The pattern has one line of symmetry.
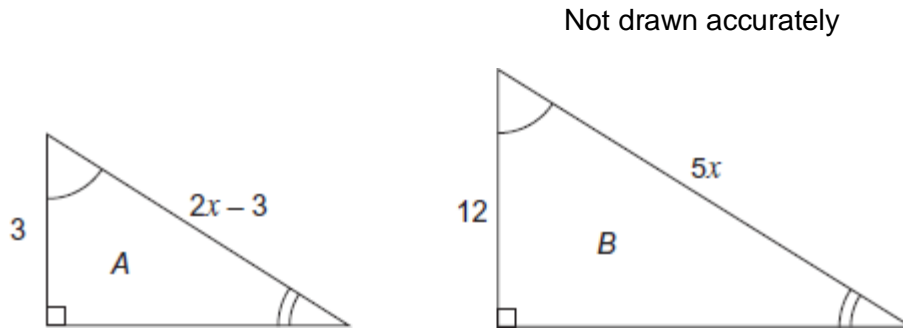
Not drawn accurately

Work out the size of angle x.

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....

....

....

....

Answer ....degrees

(3)
(Total 7 marks)

Q3.

A and *B* are similar triangles.
All measurements are in centimetres.

Not drawn accurately

Work out the area of triangle *B*.

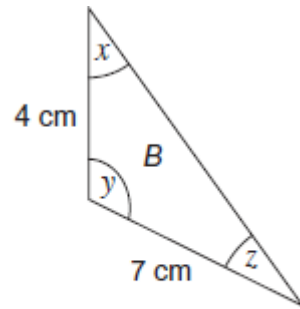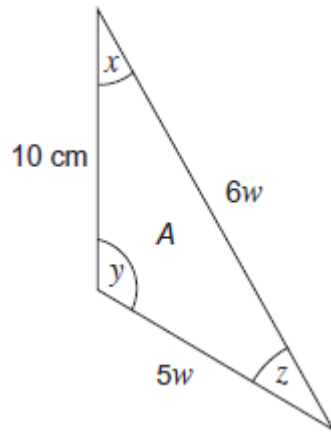..

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Answer .... cm²

(Total 7 marks)

Q4.

A and *B* are similar triangles.

Not drawn accurately

x

10 cm

6w

A

y

5w

z

4 cm

x

B

y

7 cm

z

(a)   Circle the scale factor from *A* to *B*.

-6 $\dfrac{2}{5}$ $\dfrac{5}{2}$ 6

(1)

(b)   Work out the perimeter of triangle *B*.

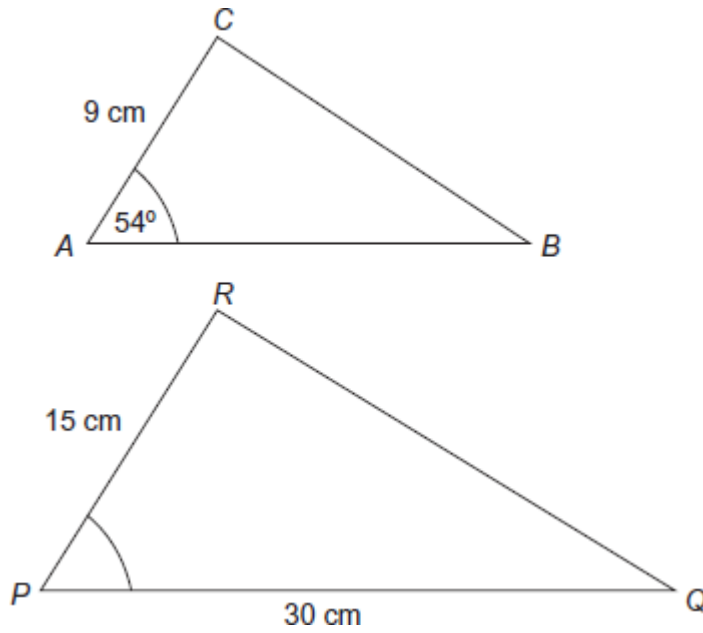...

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Answer .... cm

(4)
(Total 5 marks)

Q5.
Triangle *PQR* is an enlargement of triangle *ABC*.

Not drawn accurately

(a)   Work out the scale factor of the enlargement.

....

Answer ....

(1)

(b)   Write down the size of angle *P*.

Answer .... degrees

(1)

(c)   Work out the length *AB*.

....

....

Answer .... cm

(1)
(Total 3 marks)

Q6.

The perimeter of the triangle *ABC* is 30 cm.

M is the midpoint of side *AC*.
MN is parallel to *AB*.
NB = 5 cm, *AB* = 13cm

Not drawn accurately
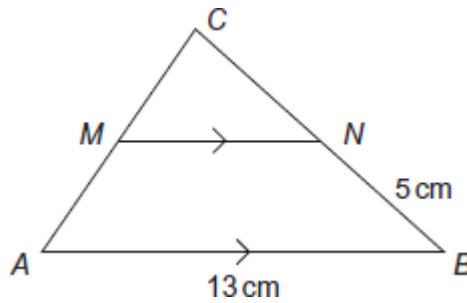
Work out the length *MA*.

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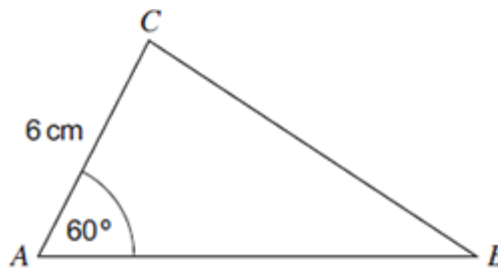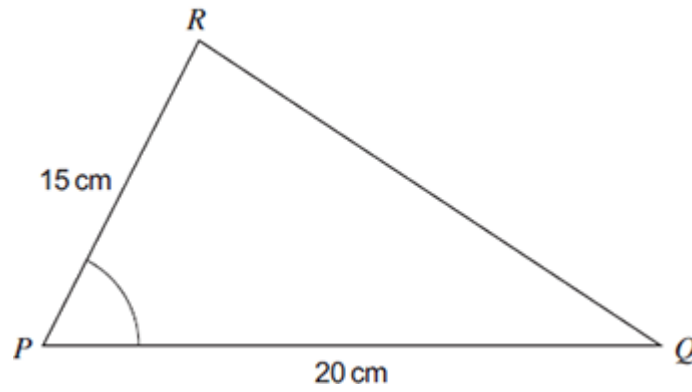Answer .... cm

(Total 3 marks)

Q7. PQR is an enlargement of ABC.

Not drawn
accurately

(a) Work out the scale factor of the enlargement.

....

Answer ....

(1)

(b) Write down the size of angle P.

Answer .... degrees

(1)

(c) Work out the length AB.

....

....

Answer .... cm

(2)
(Total 4 marks)