

Trigonometry

Please write clearly in block capitals

Forename:

Surname:

Materials

For this paper you must have:

- mathematical instruments



You **can** use a calculator.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

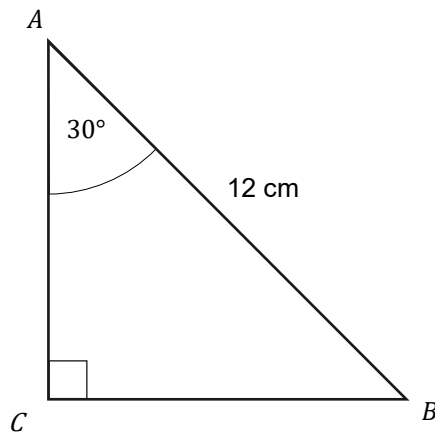
Advice

- In all calculations, show clearly how you work out your answer.

1 ABC is a right-angled triangle.

$\angle BAC$ is 30°

$AB = 12 \text{ cm}$



Not drawn
accurately

Using trigonometry, find the length of the side CB .

Show all your workings.

[3 marks]

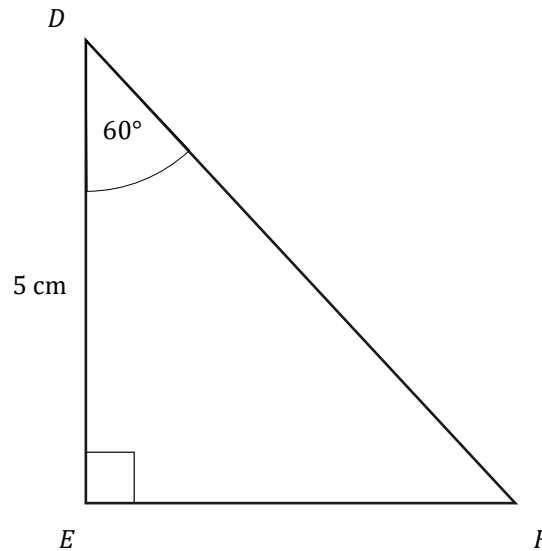
Answer

Turn over for next question

2 DEF is a right-angled triangle

$$DE = 5 \text{ cm}$$

$$\angle EDF = 60^\circ$$



Not drawn
accurately

2(a) Find the length DF .

[3 marks]

Answer _____ cm

2(b) Using your answer to part (a) find the length EF .

Show all your workings.

[3 marks]

Answer _____ cm

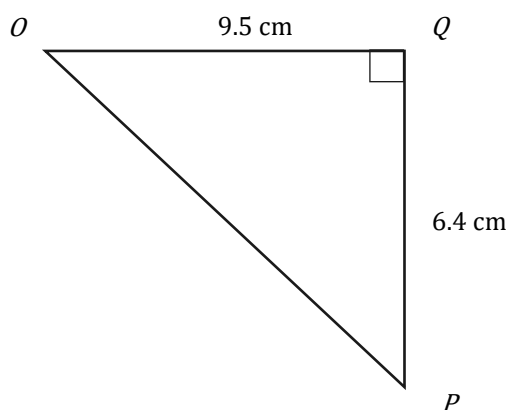
Turn over for next question

Turn over ►

3 Below is a right angled triangle

$$OP = 6.4 \text{ cm}$$

$$OQ = 9.5 \text{ cm.}$$



Not drawn
accurately

3(a) Find the size of the angle POQ . Give your answer to 2 decimal places

[3 marks]

Answer _____

3(b) What is the size of angle OPQ ?

[1 mark]

Answer _____



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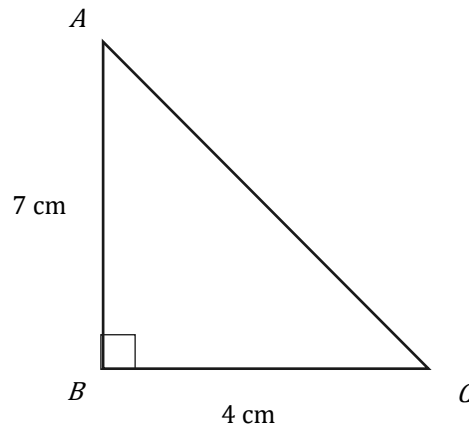


Turn over ►

4 ABC is a right-angled triangle

Side $AB = 7$ cm

Side $BC = 4$ cm



Not drawn
accurately

4(a) Find the size of angle CAB
Give your answer to 2 decimal places

[3 marks]

Answer _____

4(b) Find the size of angle ACB .

[1 mark]

Answer _____

Question continues on next page

4(c)

Find the side length AC using trigonometry.

Give your answer to 2 decimal places. You must show all workings.

[3 marks]

Answer _____



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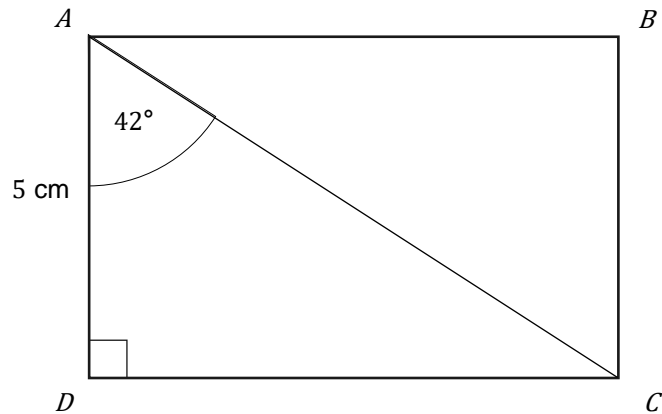
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Turn over ►

5 Below is a rectangle.

Angle DAC is 42°

Side AD is 5 cm



Not drawn
accurately

5(a) Find the length of the diagonal line AC .

Give your answer to 2 decimal places.

[3 marks]

Answer _____ cm

5(b) Using your answer to part (a) find the length DC .

Give your answer to 2 decimal places.

[3 marks]

Answer _____ cm

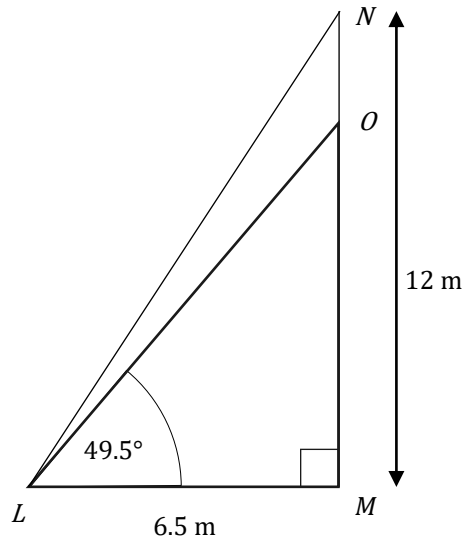
Turn over for next question

6 OL and NL are ladders leaning against a vertical wall NM .

NM is 12 m

LM is 6.5 m

Angle OLM is 49.5°



Not drawn
accurately

6(a) Find the length of the line ON .

Give your answer to 2 decimal places

[3 marks]

Answer

6(b) Find the size of angle OLN in the diagram.

[3 marks]

Answer

End of Questions

END