

Trigonometry – Common Values

Please write clearly in block capitals

Forename:

Surname:

Materials

For this paper you must have:

- mathematical instruments



You must **not** 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 Calculate the following,

(Level 5)

1(a) $\cos(30^\circ) + \sin(60^\circ)$

[2 marks]

Answer _____

1(b) $12 \cos(60^\circ) - 8 \sin(30^\circ)$

[2 marks]

Answer _____

1(c) $\frac{\tan(45^\circ)}{\sin(30^\circ)} \times 10 \tan(60^\circ)$

[2 marks]

Answer _____

1(d) $\tan(30^\circ) + \sin(60^\circ)$

[2 marks]

Answer _____

Turn over for next question

2 Calculate the following

(Level 6)

2(a)

$$\tan(30^\circ) + \sin(30^\circ)$$

[2 marks]

Answer _____

2(b)

$$\frac{\tan(45^\circ) + \sin(30^\circ)}{\tan(60^\circ)} \times \cos(45^\circ)$$

[3 marks]

Answer _____



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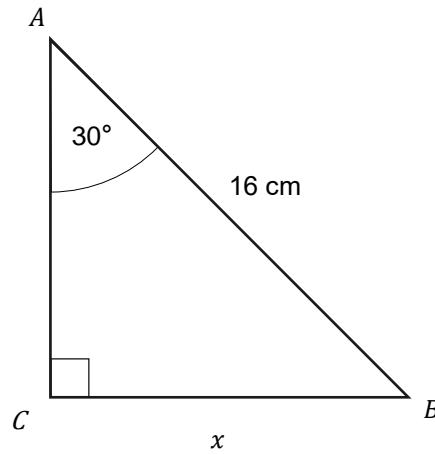


3 ABC is a right-angled triangle.

(Level 6)

$\angle BAC$ is 30°

$AB = 16$ cm



Find the exact value of x .

Show all your workings.

[2 marks]

Answer _____



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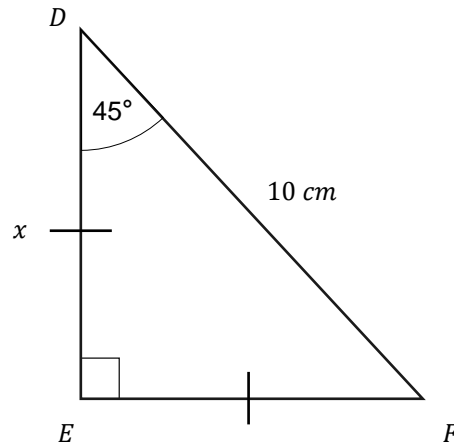
4

 DEF is a right-angled triangle

(Level 6)

$DE = EF$

$\angle EDF = 45^\circ$

Not drawn
accuratelyFind the exact value of the length x

Show all your workings.

[2 marks]

Answer _____ cm

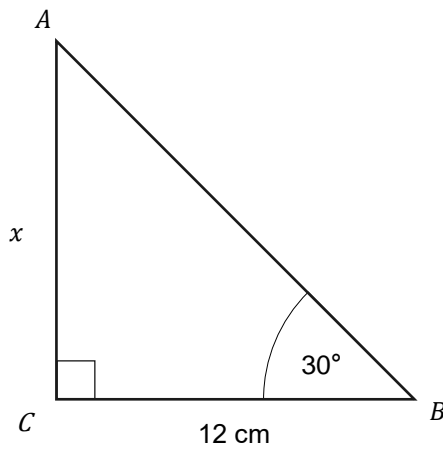
Turn over for next question

Turn over ►

5

 ABC is a right-angled triangle.

(Level 6)

 $\angle ABC$ is 30° $CB = 12$ cmNot drawn
accuratelyFind the exact value of x .

Show all your workings.

[2 marks]

Answer _____

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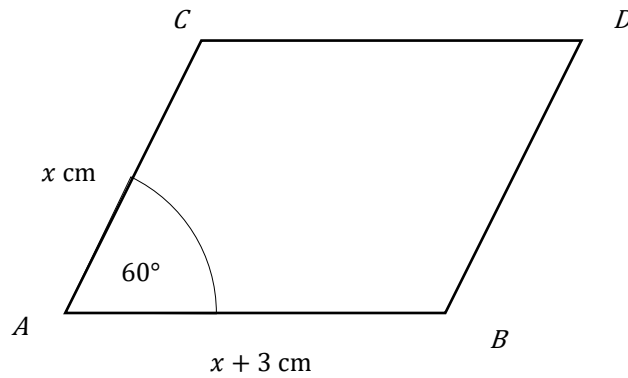
6

Below is a parallelogram

(Level 7)

$$AC = x$$

$$AB = x + 3$$

Not drawn
accuratelyThe area of the parallelogram is $20\sqrt{3}$ Find the value of x **[4 marks]**

Answer _____

End of Questions