## 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.


$3 \quad A B C$ is a right-angled triangle.
$\angle B A C$ is $30^{\circ}$

$$
A B=16 \mathrm{~cm}
$$



Not drawn accurately

Find the exact value of $x$.
Show all your workings.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Answer $\qquad$

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$4 \quad D E F$ is a right-angled triangle
$D E=E F$
$\angle E D F=45^{\circ}$


Find the exact value of the length $x$
Show all your workings.
Not drawn accurately
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Answer cm

Turn over for next question
$5 \quad A B C$ is a right-angled triangle.
$\angle A B C$ is $30^{\circ}$
$C B=12 \mathrm{~cm}$


Not drawn accurately

Find the exact value of $x$.
Show all your workings.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Answer


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6 Below is a parallelogram
$A C=x$
$A B=x+3$


The area of the parallelogram is $20 \sqrt{3}$
Find the value of $x$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Answer $\qquad$

End of Questions

