## Using The Quadratic Formula

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.


Use the quadratic formula to solve the following quadratic equations.
Give all answers to 2 decimal places.
You must show your working.
4(a) $x^{2}+x-10=0$
[2 marks]
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

$$
x=\square \quad x=
$$

4(b)

$$
5 x^{2}+3 x-22=0
$$

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$x=$ $\qquad$ $x=$ $\qquad$

## Turn over for next question

4(c)

5 Solve for $x$, using the quadratic formula;

$$
x^{2}+10 x+20=0
$$

Give your answer as a surd.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Answer $\qquad$

6 Solve for $x$, using the quadratic formula;

$$
x^{2}-2(x+5)=4 x+8
$$

Give your answer to 2 decimal places.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Answer $\qquad$

7 Solve for $x$, using the quadratic formula.

$$
3 x^{2}-42 x+147=0
$$

$\qquad$
$\qquad$
$\qquad$
Answer
Turn over for next question

Solve for $x$, using the quadratic formula.

$$
x^{2}-6=\frac{2 x+12}{-6}
$$

Give your answer in its exact form.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Answer $\qquad$


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