

> | Materials required for examination |
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| Ruler graduated in centimetres and |
| millimetres, protractor, compasses, |
| pen, HB pencil, eraser. |
| Tracing paper may be used. |

## Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initials and signature.
Check that you have the correct question paper.
Answer ALL the questions. Write your answers in the spaces provided in this question paper.
You must NOT write on the formulae page
Anything you write on the formulae page will gain NO credit
If you need more space to complete your answer to any question, use additional answer sheets

Information for Candidates
The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2). There are 26 questions in this question paper. The total mark for this paper is 100 .
There are 24 pages in this question paper. Any blank pages are indicated.
Calculators must not be used

## Advice to Candidates

Show all stages in any calculations
Work steadily through the paper. Do not spend too long on one question.
If you cannot answer a question, leave it and attempt the next one.
Return at the end to those you have left out.







$\square$

7 . The $n$th term of a number sequence is given by $3 n+1$
(a) Work out the first two terms of the number sequence.
$\qquad$

Here are the first four terms of another number sequence.

$$
\begin{array}{llll}
1 & 5 & 9 & 13
\end{array}
$$

(b) Find, in terms of $n$, an expression for the $n$th term of this number sequence.
(2)

