

## Thursday 18 May 2023 – Afternoon

### AS Level Mathematics A

#### H230/01 Pure Mathematics and Statistics

#### Printed Answer Booklet

Time allowed: 1 hour 30 minutes



**You must have:**

- Question Paper H230/01 (inside this document)
- a scientific or graphical calculator



Please write clearly in black ink. **Do not write in the barcodes.**

Centre number

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Candidate number

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First name(s)

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Last name

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#### INSTRUCTIONS

- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the space provided in the **Printed Answer Booklet**. If you need extra space use the lined pages at the end of the Printed Answer Booklet. The question numbers must be clearly shown.
- Answer **all** the questions.
- Where appropriate, your answer should be supported with working. Marks might be given for using a correct method, even if your answer is wrong.
- Give non-exact numerical answers correct to **3** significant figures unless a different degree of accuracy is specified in the question.
- The acceleration due to gravity is denoted by  $g \text{ ms}^{-2}$ . When a numerical value is needed use  $g = 9.8$  unless a different value is specified in the question.

#### INFORMATION

- The total mark for this paper is **75**.
- The marks for each question are shown in brackets [ ].
- This document has **16** pages.

#### ADVICE

- Read each question carefully before you start your answer.

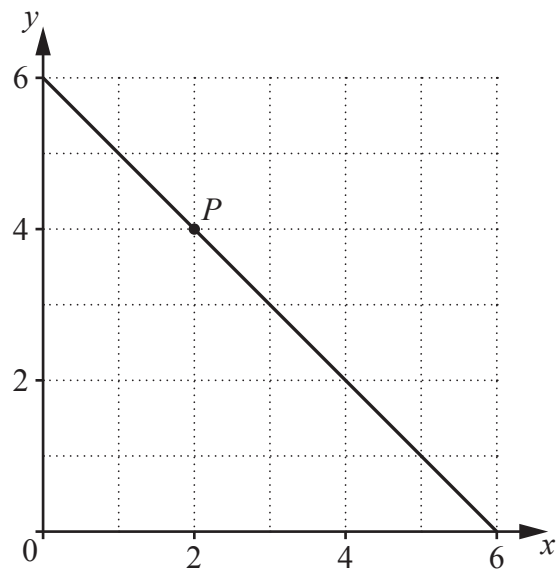
Section A

Pure Mathematics

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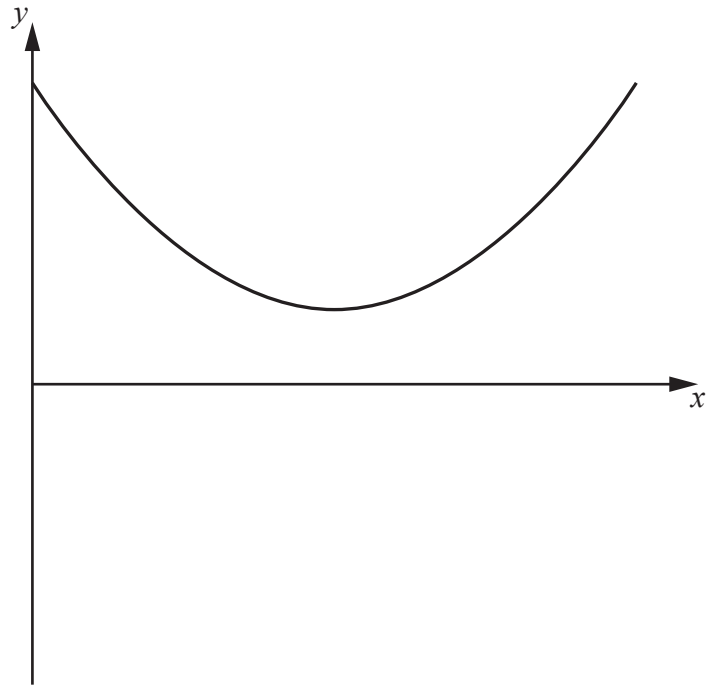


2(b)



2(c)

3(a)



3(b)

**DO NOT WRITE IN THIS SPACE**





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**11**  
**Section B**  
**Statistics**

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| <b>10(d)</b>     |  |
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| <b>11(a)</b>     |  |
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| 12(a) | <u>Fig. 1</u> |
|       | <u>Fig. 2</u> |
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| 12(b) | <u>Fig. 1</u> |
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|       | <u>Fig. 2</u> |
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| 12(c) |               |
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