Oxford Cambridge and RSA

AS Level Mathematics B (MEI)

H630/01 Pure Mathematics and Mechanics
Printed Answer Booklet

Wednesday 16 May 2018 – Morning

Time allowed: 1 hour 30 minutes

You must have:
- Question Paper H630/01 (inserted)

You may use:
- a scientific or graphical calculator

First name	
Last name	

Centre number						Candidate number				

INSTRUCTIONS
- The Question Paper will be found inside the Printed Answer Booklet.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Complete the boxes provided on the Printed Answer Booklet with your name, centre number and candidate number.
- Answer **all** the questions.
- **Write your answer to each question in the space provided in the Printed Answer Booklet.** If additional space is required, you should use the lined page(s) at the end of this booklet. The question number(s) must be clearly shown.
- Do **not** write in the barcodes.
- You are permitted to use a scientific or graphical calculator in this paper.
- Final answers should be given to a degree of accuracy appropriate to the context.
- The acceleration due to gravity is denoted by $g\,\mathrm{m\,s^{-2}}$. Unless otherwise instructed, when a numerical value is needed, use $g = 9.8$.

INFORMATION
- You are advised that an answer may receive **no marks** unless you show sufficient detail of the working to indicate that a correct method is used. You should communicate your method with correct reasoning.
- The Printed Answer Booklet consists of **16** pages. The Question Paper consists of **8** pages.

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1	
2	
3	

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4

Fig. 4

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5 (i)	
5 (ii)	
5 (iii)	

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6 (i)

6 (ii)

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7

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8

(answer space continued on next page)

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8	**(continued)**
9 (i)	

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9 (ii)

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10 (i)	
10 (ii)	
10 (iii)	

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10 (iv)	
10 (v)	
10 (vi)	

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11 (i)

11 (ii)

11 (iii)

	$\ln x$	$\ln y$
Mercury		
Jupiter		

11 (iv)

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11 (v)	
11 (vi)	
11(vii)	

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ADDITIONAL ANSWER SPACE

If additional space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margin(s).

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