OCR
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

7 0 7 0 0 2 5 8 0 6

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

You may use:
- a scientific or graphical calculator

H 6 3 0 0 1

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.

DC (RW) 164683

1	
2	
3	

4

Fig. 4

5 (i)

5 (ii)

5 (iii)

6 (i)

6 (ii)

7	

8

(answer space continued on next page)

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

9 (ii)

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

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

11 (i)

11 (ii)

11 (iii)

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

11 (iv)

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

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).