



# Thursday 13 June 2019 – Afternoon AS Level Further Mathematics B (MEI)

Y415/01 Mechanics b

Printed Answer Booklet

Time allowed: 1 hour 15 minutes

#### You must have:

- Question Paper Y415/01 (inserted)
- Formulae Further Mathematics B (MEI)

#### You may use:

• a scientific or graphical calculator



Please write clearly in black ink	Do not write in the barcodes.	
Centre number	Candidate number	
First name(s)		
Last name		

#### **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.
- 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 the Printed Answer Booklet. The question number(s) must be clearly shown.
- 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  $gm\,s^{-2}$ . 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 12 pages. The Question Paper consists of 8 pages.

<b>1(a)</b>	
<b>1(b)</b>	

2(a)	
2(b)	
2(0)	
<b>2</b> (c)	

4

3(a)	
,	
3(b)	
,	
3(c)	

<b>4</b> (a)	

<b>4(b)</b>	
4(c)	
( )	
4(d)	

5(a)(i)	
<b>5(a)(ii)</b>	
,	
,	
,	
,	

<b>5</b> (b)	
5(c)	

<b>6</b> (a)	
6(b)	
. ,	

<b>6(c)</b>	

<b>6(d)</b>	

## 12 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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