

**Solution to Question 1** (essay question) – 25 marks

*Remark:* For making short comments for tutors.

- |   |                         |
|---|-------------------------|
| (a) hello   | 4                       |
| (b) goodbye running a long time until it goes over to a second line perhaps |                         |
| (c) (i) Sub sub   | 2                       |
| (ii) Sub sub  | 2                       |
|   | 4 Subtotal for part (c) |

*Unit A, pages 1–2*

5 Total for Question 1

*Remarks:*

You can place longer remarks inside the longremark environment.

**Solution to Question 2**

- |  |   |
|--|---|
| (a) First part of the solution, inside the solution environment. | 4 |
| (b) Some mathematics: $\int_0^\infty x$ and                      |   |
| $a^2 = b^2 = c^2$  | 2 |

*Remark:* Award no marks for this part of the question.

- |                                   |    |                            |
|-----------------------------------|----|----------------------------|
| (c) Marks with marginal comments. | 40 | Method. Ignore all         |
| (d) The final part.               | 3  | attempts at this question. |
|                                   | 1  | Subtotal for part (d)      |

*Unit B, Theorem 1.1*

5 Total for Question 2

**Solution to Question 3** – 25 marks

- |   |         |
|---|---------|
| (a) Marks can also be called using  | 4       |
| (b) Formatting in marks: these don't get automatically summed.                  | 3 1A 2M |
| (c) (i) Sub sub   | 2       |
| (ii) Sub sub question that runs a long time until it goes over to a second line | 2       |
| Emulate the OUPTeX intertext command using the (built-in) enumitem command.     |         |
| (d) Numbering continues   |         |
|   | 3 Total |

**Solution to Question 4** – 10 marks

(a) Subtotals can be calculated automatically using <code>\subtotal*</code> or <code>\subtotal*[comment]</code>	2
(b) Totals can be calculated automatically using <code>\total*</code> or <code>\total*[comment]</code>	3
	<b>5 Subtotal</b>

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**5 Total**

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### Solution to Question 5 – 3 marks

(a) The lines after a <code>subtotal</code> command can be customized using the <code>\setSubtotalHline[&lt;options&gt;]</code> command, the <code>&lt;options&gt;</code> are <code>moveleft</code> , <code>width</code> , <code>height</code> , <code>color</code> , and <code>draw line</code> . These options can be used in any combination (and should probably be set once in the preamble); for example,	
•default behaviour	<b>0 Subtotal</b>

• <code>\setSubtotalHline[moveleft=0pt]</code>	<b>0 Subtotal</b>
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• <code>\setSubtotalHline[moveleft=-2cm,width=.5\textwidth]</code>	<b>0 Subtotal</b>
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• <code>\setSubtotalHline[color=green]</code>	2
	<b>3 Subtotal</b>

• <code>\setSubtotalHline[moveleft=0pt,height=5pt,color=orange]</code>	<b>0 Subtotal</b>
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•turn off: <code>\setSubtotalHline[draw line=false]</code>	1
	<b>1 Subtotal</b>

(b) The lines after a <code>total</code> command can be customised using the <code>\setTotalHline[&lt;options&gt;]</code> command, and have exactly the same options as its <code>\setSubtotalHline</code> counterpart.	
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For example,

•default behaviour	<b>1 Total</b>
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• <code>\setTotalHline[moveleft=10pt]</code>	<b>3 Total</b>
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• <code>\setTotalHline[moveleft=2cm,width=.75\textwidth]</code>	<b>3 Total</b>
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• <code>\setTotalHline[color=purple]</code>	<b>3 Total</b>
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• <code>\setTotalHline[moveleft=0pt,height=.5pt,color=yellow]</code>	<b>3 Total</b>
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•turn off: <code>\setTotalHline[draw line=false]</code>	<b>3 Total</b>
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(c) Horizontal rules can be drawn manually without using the <code>\total</code> (and friends) command(s) using the <code>\ourule[&lt;options&gt;]</code> command, where the <code>&lt;options&gt;</code> are exactly the same options as those for <code>\setSubtotalHline</code> . For example:	
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•`\ourule`

- `\ourule[color=orange]`

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- `\ourule[color=black!50!red,height=3pt,moveleft=4cm,width=.5\textwidth]`

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- You can specify the style of the `\ourule` command globally using, for example,  
`\setOOURule[color=red,height=4pt,moveleft=-2cm,width=.75\textwidth]`  
Now, when using simply `\ourule`, the output is:

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And then you can overwrite certain aspects as you see fit, for example  
`\ourule[color=blue]`

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### Solution to Question 6 – 4 marks

- (a) The `\tutoronly` command *only* produces output in the tutor version of the tutor notes, and is ignored when the `specsolns` option is used. For example *students will not see this!*.
- (b) The `tutor` environment is only visible in tutor notes, and is ignored when the `specsolns` option is used. For example

**For tutors only:**

This environment will only be seen in the tutor notes.

It will not be seen in the student version.

- (c) The `\studentonly` command *only* produces output in the special solutions version of tutor notes (so `specsolns` must be active); for example
- (d) The `student` environment is only visible in student solutions, when the `specsolns` option is used. For example
- (e) The `\tutororstudent` takes two parameters, the first will only be seen in the tutor version (when `specsolns` is not active), the second will only be seen by students in the student version (when `specsolns` is active). For example: for tutors!

## CMA 41

### Solution to Question 1 (inline multi-choice) – 25 marks

*Remark:* Inline options work in the Tutornote class file in exactly the same way as in the assignment booklet.

*Options*

<b>A</b> yes	<b>B</b> no	<b>C</b> maybe	<b>D</b> well...	<b>E</b> never!
<b>F</b> yes	<b>G</b> yes	<b>H</b> yes		

### Solution to Question 2 (inline multi-choice) – 25 marks

Choose an inline option from four columns.

*Options*

<b>A</b> yes	<b>B</b> no	<b>C</b> maybe	<b>D</b> well...
<b>E</b> never!	<b>F</b> yes	<b>G</b> yes	<b>H</b> yes

### Solution to Question 3 – C marks

Choose an inline option at 1.5 spacing.

*Options*

<b>A</b> yes	<b>B</b> no	<b>C</b> maybe
<b>D</b> well...	<b>E</b> never!	<b>F</b> yes
<b>G</b> yes	<b>H</b> yes	

### Solution to Question 4 (stupid question) – 25 marks

Choose an option.

*Options*

- A**    There are no options
- B**    There is one option
- C**    This option is the wrong choice

## QUIZB 01

Cut-off date 1 April 2015

**Solution to Question 1** (changing subquestion labels) – 8 marks

- (i) enumitem lets you change the labelling of subquestions 4
- (ii) goodbye running a long time until it goes over to a second line perhaps

**Solution to Question 2** (changing subquestion labels 2) – 8 marks

- (A) enumitem lets you change the labelling of subquestions 4
- (B) goodbye running a long time until it goes over to a second line perhaps

**Solution to Question 3** (Starred version showing no marks)

This question has no marks associated with it on its first line. 4

**Solution to Question 4**Another starred question, this time with no optional argument.

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