



TMA 01

Cut-off date 12 November 2024

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.

References

You can place references inside the references 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 attempts at this question.
(d)	Starred enumerate environment gives you inline enumerate: (i) first part                      (ii) second part                      (iii) third part	3
(e)	The final part.	3
		1 Subtotal for part (e)

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	

**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> |

- |   |                   |
|---|-------------------|
| (c) Marks that you don't want added to the subtotal/total counter can be inserted using <code>\mk*</code> | 2                 |
|   | <b>0 Subtotal</b> |

**5 Total****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, |                   |
| <ul style="list-style-type: none"> <li>• default behaviour</li> </ul>   | <b>0 Subtotal</b> |

- |  |                   |
|--|-------------------|
| <ul style="list-style-type: none"> <li>• <code>\setSubtotalHline[moveleft=0pt]</code></li> </ul> | <b>0 Subtotal</b> |
|--|-------------------|

- |  |                   |
|--|-------------------|
| <ul style="list-style-type: none"> <li>• <code>\setSubtotalHline[moveleft=-2cm,width=.5\textwidth]</code></li> </ul> | <b>0 Subtotal</b> |
|--|-------------------|

- |   |                   |
|---|-------------------|
| <ul style="list-style-type: none"> <li>• <code>\setSubtotalHline[color=green]</code></li> </ul> | 2                 |
|   | <b>3 Subtotal</b> |

- |  |                   |
|--|-------------------|
| <ul style="list-style-type: none"> <li>• <code>\setSubtotalHline[moveleft=0pt,height=5pt,color=orange]</code></li> </ul> | <b>0 Subtotal</b> |
|--|-------------------|

- |   |                   |
|---|-------------------|
| <ul style="list-style-type: none"> <li>• turn off: <code>\setSubtotalHline[draw line=false]</code></li> </ul> | 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. |  |
|---|--|

For example,

- |   |                |
|---|----------------|
| <ul style="list-style-type: none"> <li>• default behaviour</li> </ul> | <b>1 Total</b> |
|---|----------------|

- |  |                |
|--|----------------|
| <ul style="list-style-type: none"> <li>• <code>\setTotalHline[moveleft=10pt]</code></li> </ul> | <b>3 Total</b> |
|--|----------------|

- |   |                |
|---|----------------|
| <ul style="list-style-type: none"> <li>• <code>\setTotalHline[moveleft=2cm,width=.75\textwidth]</code></li> </ul> | <b>3 Total</b> |
|---|----------------|

- |   |                |
|---|----------------|
| <ul style="list-style-type: none"> <li>• <code>\setTotalHline[color=purple]</code></li> </ul> | <b>3 Total</b> |
|---|----------------|

- `\setTotalHline[moveleft=0pt,height=.5pt,color=yellow]`

3 Total

- turn off: `\setTotalHline[draw line=false]`

3 Total

- (c) Horizontal rules can be drawn manually without using the `\total` (and friends) command(s) using the `\ourule[<options>]` command, where the `<options>` are exactly the same options as those for `\setSubtotalHline`. For example:

- `\ourule`

- `\ourule[color=orange]`

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

- You can specify the style of the `\ourule` command globally using, for example,

`\setOUrule[color=red,moveleft=-2cm,width=.75\textwidth]`

Now, when using simply `\ourule`, the output is:

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

### Solution to Question 6 – 4 marks

- (a) The `\tonly` command *only* produces output in the tutor version of the tutor notes, and is ignored when the `specsols` 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 `specsols` 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 `\ssonly` command *only* produces output when `specsols` is active; for example
- (d) The `student` environment is only visible in student solutions, when the `specsols` option is used. For example
- (e) The `\tnorss` takes two parameters, the first will only be seen in the tutor version (when `specsols` is not active), the second will only be seen by students in the student version (when `specsols` 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

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 2025

**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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