

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
<i>Remark:</i> 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
	5 Subtotal
(c) Marks that you don't want added to the subtotal/total counter can be inserted using <code>\mk*</code>	2
	0 Subtotal
(d) You can use decimals in marks. <code>\mk{1.5}</code> gets rendered as Another fractional mark	$1\frac{1}{2}$ $\frac{1}{2}$
	2 Subtotal
(e) If you really want, other decimals can also be used. Another example, so the part-marks add up to 0.5.	0.2 0.3
	$\frac{1}{2}$ Subtotal shows halves too
	$7\frac{1}{2}$ Total can too!

Solution to Question 5 – 3 marks

(a) The lines after a <code>subtotal</code> command can be customized using the <code>\setSubtotalHline[<options>]</code> command, the <code><options></code> are <code>moveleft</code> , <code>movedown</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"> • default behaviour 	0 Subtotal
<ul style="list-style-type: none"> • <code>\setSubtotalHline[moveleft=0pt]</code> 	0 Subtotal
<ul style="list-style-type: none"> • <code>\setSubtotalHline[moveleft=-2cm,width=.5\textwidth]</code> 	0 Subtotal
<ul style="list-style-type: none"> • <code>\setSubtotalHline[color=green,movedown=20pt]</code> 	2
	3 Subtotal
<ul style="list-style-type: none"> • <code>\setSubtotalHline[moveleft=0pt,height=5pt,color=orange]</code> 	0 Subtotal
<ul style="list-style-type: none"> • turn off: <code>\setSubtotalHline[draw line=false]</code> 	1
	1 Subtotal
(b) The lines after a <code>total</code> command can be customised using the <code>\setTotalHline[<options>]</code> command, and have exactly the same options as its <code>\setSubtotalHline</code> counterpart. For example, <ul style="list-style-type: none"> • default behaviour 	1 Total

- `\setTotalHline[moveleft=10pt]`

0 Total

- `\setTotalHline[moveleft=2cm,width=.75\textwidth]`

0 Total

- `\setTotalHline[color=purple,movedown=1cm]`

3 Total

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

0 Total

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

0 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,movedown=-1cm]`

Solution to Question 6 – 4 marks

- (a) The `\tnonly` command *only* produces output in the tutor version of the tutor notes, and is ignored when the `specsolsns` 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 `specsolsns` 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

A yes	B no	C maybe	D well...	E never!
F yes	G yes	H yes		

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

Choose an inline option from four columns.

Options

A yes	B no	C maybe	D well...
E never!	F yes	G yes	H yes

Solution to Question 3

Choose an inline option at 1.5 spacing.

Options

A yes	B no	C maybe
D well...	E never!	F yes
G yes	H 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.
