**Faculty of Science, Technology, Engineering and Mathematics**
**MXXX Title of Module**

# Title of TN 2015B

**TMA 01**           **Cut-off date**   12 November 2014

**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) The final part. | 3 | |
| | **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 OUTeX 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 `\subtotal*` or `\subtotal*[comment]` — 2

(b) Totals can be calculated automatically using `\total*` or `\total*[comment]` — 3

**5 Subtotal**

---

**5 Total**

---

**Solution to Question 5** – 3 marks

(a) The lines after a `subtotal` command can be customized using the `\setSubtotalHline[<options>]` command, the `<options>` are `moveleft`, `width`, `height`, `color`, and `draw line`. These options can be used in any combination (and should probably be set once in the preamble); for example,

   •default behaviour

   **0 Subtotal**

---

   •`\setSubtotalHline[moveleft=0pt]`

   **0 Subtotal**

---

   •`\setSubtotalHline[moveleft=-2cm,width=.5\textwidth]`

   **0 Subtotal**

   _____

   •`\setSubtotalHline[color=green]` — 2

   **3 Subtotal**

---

   •`\setSubtotalHline[moveleft=0pt,height=5pt,color=orange]`

   **0 Subtotal**

---

   •turn off: `\setSubtotalHline[draw line=false]` — 1

   **1 Subtotal**

(b) The lines after a `total` command can be customised using the `\setTotalHline[<options>]` command, and have exactly the same options as its `\setSubtotalHline` counterpart.

   For example,

   •default behaviour

   **1 Total**

---

   •`\setTotalHline[moveleft=10pt]`

   **3 Total**

---

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

   **3 Total**

---

   •`\setTotalHline[color=purple]`

   **3 Total**

---

   •`\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,moveleft=4cm,width=.5\textwidth]

- You can specify the style of the \ourule command globally using, for example,
  \setOUrule[color=red,height=4pt,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 \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*

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **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** – C marks

hoose 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 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.