

Mathematics ABC — Midterm — 45 minutes

October 43th 2318

- The test consists of 6 pages and 3 questions worth a total of 20 marks.
- This is a closed-book examination. **None of the following are allowed:** documents, cheat sheets or electronic devices of any kind (including calculators, cell phones, etc.)
- No work on this page will be marked.
- Fill in the information below before turning to the questions.

Student number									
Section									
Name								
Signature									





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Additional instructions

- Please use the spaces indicated.
- If you require extra paper then put up your hand and ask your instructor.
 - You must put your name and student number on any extra pages.
 - You must indicate the test-number and question-number.
 - Please do this **on both sides** of any extra pages.
- Please do not dismember your test. You must submit all pages.
- Smoking is strictly prohibited during the test.

Formula sheet

You may find the following formulas useful in the questions that follow.

$$a^2 + b^2 = c^2$$

$$e^{i\pi} + 1 = 0$$

$$\sum_{i=1}^n i = \frac{n(n+1)}{2}$$

$$\frac{d}{dx}(f+g) = \frac{df}{dx} + \frac{dg}{dx}$$

$$\int (f+g)dx = \int f dx + \int g dx$$

$$\cos(a+b) = \cos a \cos b - \sin a \sin b$$

$$\sin(a+b) = \sin a \cos b + \cos a \sin b$$

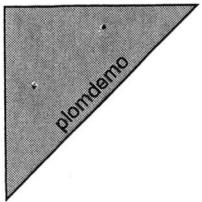
$$A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$$

$$A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$$

$$\overline{A \cap B} = \overline{A} \cup \overline{B}$$

$$\overline{A \cup B} = \overline{A} \cap \overline{B}$$





Test 0006 Q(1) p. 3



1. [5 marks] Please place your answers in the boxes provided.

(a) Answer something simple

Answer:

(b) Another little thing here.

Answer:

(c) A third thing

Answer:



Test 0006 Q(2) p. 4



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2. **5 marks** Please place your answers in the boxes provided. [Note if mark this question as “fix” in the spec it will always be chosen from version 1; version 2 will never be used.]

(a) Answer something not quite so simple

Answer:

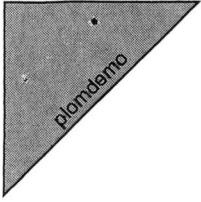
(b) Another less simple thing here.

Answer:

(c) A third thing unsimple thing here.

Answer:





Test 0006 Ex.3 p. 5



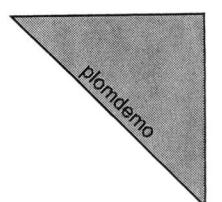
3. [10 marks] A long question goes here. In fact it is sufficiently long that we make sure you have a whole extra blank page for your work.

[But this is ver2 which is the same question but some details have been changed slightly.]





Test 0006 Ex.3 p. 6



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This blank page is for your solution to Question 3 if you need more space.





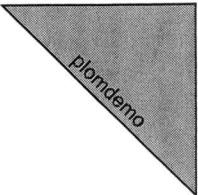
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Test 0007 Q(1) p. 3

1. [5 marks] Please place your answers in the boxes provided.
- (a) Answer something simple

Answer:

- (b) Another little thing here.

Answer:

- (c) A third thing

Answer:





Test 0007 Q(2) p. 4

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2. [5 marks] Please place your answers in the boxes provided. [Note if mark this question as “fix” in the spec it will always be chosen from version 1; version 2 will never be used.]

(a) Answer something not quite so simple

Answer:

(b) Another less simple thing here.

Answer:

(c) A third thing unsimple thing here.

Answer:





Page 5 of 6



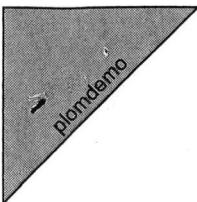


Page 6 of 6



[But this is ver2 which is the same question but some details have been
changed slightly]
make sure you have a whole extra blank page for your work.
10 marks A long question goes here. In fact it is sufficiently long that we

Test 0007 Ex.3 p.5



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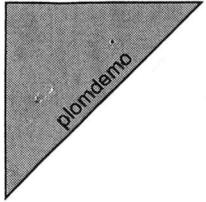
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Test 0008 Q(1) p. 3



1. [5 marks] Please place your answers in the boxes provided.
(a) Answer something simple

Answer:

- (b) Another little thing here.

Answer:

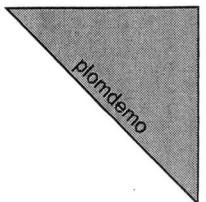
- (c) A third thing

Answer:





Test 0008 Q(2) p. 4



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2. **5 marks** Please place your answers in the boxes provided. [Note if mark this question as “fix” in the spec it will always be chosen from version 1; version 2 will never be used.]

(a) Answer something not quite so simple

Answer:

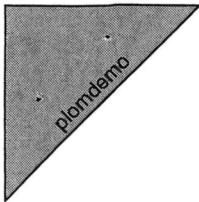
(b) Another less simple thing here.

Answer:

(c) A third thing unsimple thing here.

Answer:





Test 0009 Q(1) p. 3



1. [5 marks] Please place your answers in the boxes provided.
(a) Answer something simple

Answer:

- (b) Another little thing here.

Answer:

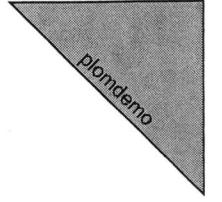
- (c) A third thing

Answer:





Test 0009 Q(2) p. 4



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2. [5 marks] Please place your answers in the boxes provided. [Note if mark this question as "fix" in the spec it will always be chosen from version 1; version 2 will never be used.]

(a) Answer something not quite so simple

Answer:

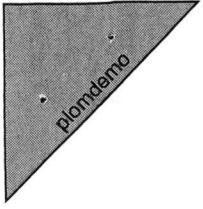
(b) Another less simple thing here.

Answer:

(c) A third thing unsimple thing here.

Answer:





Test 0009 Ex.3 p. 5



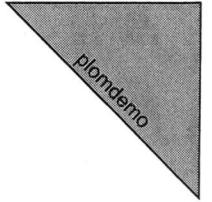
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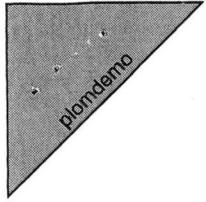


Test 0009 Ex.3 p. 6



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Test 0005 Ex.3 p. 5



3. [10 marks] A long question goes here. In fact it is sufficiently long that we make sure you have a whole extra blank page for your work.

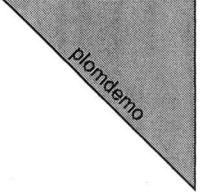




Test 0005 Ex.3 p. 6



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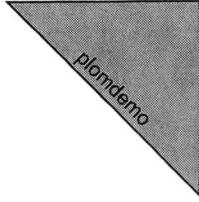
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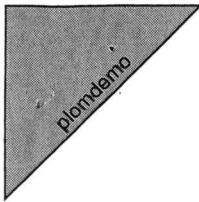
Test 0008 Ex.3 p. 6

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Test 0008 Ex.3 p. 5

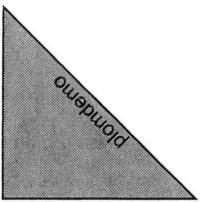


3. [10 marks] A long question goes here. In fact it is sufficiently long that we make sure you have a whole extra blank page for your work.





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Test 0010 Ex.3 p.6





3. **10 marks** A long question goes here. In fact it is sufficiently long that we make sure you have a whole extra blank page for your work.
[But this is ver2 which is the same question but some details have been changed slightly.]



Test 0010 Ex.3 p.5

