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*For Supervisor's use only*



NEW ZEALAND QUALIFICATIONS AUTHORITY  
MANA TOHU MĀTAURANGA O AOTEAROA

## Scholarship 2009 Mathematics with Calculus

9.30 am Saturday 21 November 2009

Time allowed: Three hours

Total marks: 40

### ANSWER BOOKLET

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

You should answer ALL the questions in this Answer Booklet.

Show ALL working.

Start each question on a NEW page. Number each question and part question carefully.

Answers developed using a CAS calculator require **ALL commands to be shown**. Correct answers only will not be sufficient.

Check that this booklet has pages 2–26 in the correct order and that none of these pages is blank.

**YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.**

Question  
number

You have three hours to complete this examination.

Assessor's  
use only

[illegible]

Question  
number

Assessor's  
use only[illegible]

Question  
number

Assessor's  
use only[illegible]

Question  
number

Assessor's  
use only[illegible]

Question  
number

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Question  
number

Assessor's  
use only[illegible]

Question  
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Question  
number

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Question  
number

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Question  
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[illegible]

Question  
number

Assessor's  
use only[illegible]

Question  
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Assessor's  
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Question  
number

Assessor's  
use only[illegible]

Question  
number

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use only

[illegible]

Question  
number

Assessor's  
use only[illegible]



Question  
number

Assessor's  
use only

[illegible]

Question  
number

Assessor's  
use only[illegible]

Question  
number

Assessor's  
use only

[illegible]

Question  
number

Assessor's  
use only

[illegible]

Question  
number

Assessor's  
use only

[illegible]

Question  
number

Assessor's  
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[illegible]

Question  
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[illegible]

Question  
number

Assessor's  
use only

[illegible]



Question  
number

Assessor's  
use only

[illegible]

Question  
number

Assessor's  
use only

[illegible]





<b>For Assessor's Use Only</b>	
Question Number	Marks
ONE	(8)
TWO	(8)
THREE	(8)
FOUR	(8)
FIVE	(8)
<b>TOTAL</b>	<b>(40)</b>

**For Assessor's use only.**  
**Keep flap folded in.**