

93202MA



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NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

QUALIFY FOR THE FUTURE WORLD
KIA NOHO TAKATŪ KI TŌ ĀMUA AO!

Karahipi 2017 Te Tuanaki

9.30 i te ata Rāmere 10 Whiringa-ā-rangi 2017
Te wā: Toru haora
Whiwhinga tapeke: 40

PUKAPUKA TUHINGA

E rima ngā tūmahi ki tēnei whakamātautau. Me whakatutuki ngā tūmahi KATOA E RIMA.

Tirohia mēnā e rite ana te Tau Ākonga ā-Motu (NSN) kei runga i tō puka whakauru ki te tau kei runga i tēnei whārangi.

Tuhia ō tuhinga KATOA ki tēnei pukapuka.

Tirohia mēnā kei a koe te Pukapuka Tikanga Tātai me ngā Tūtohi S-CALCMF.

Whakaaturia ngā mahinga KATOA. Me tīmata tō whakautu ki ia tūmahi ki tētahi whārangi hou. Āta tuhia ā-tau ia tūmahi.

Ko ngā whakautu i oti mā tētahi tātaitai CAS me mātua **whakaatu ngā tono KATOA**. Kāore e rawaka ngā whakautu tika anake.

Tirohia mēnā e tika ana te raupapatanga o ngā whārangi 2–27 kei roto i tēnei pukapuka, ka mutu, kāore tētahi o aua whārangi i te takoto kau.

HOATU TE PUKAPUKA NEI KI TE KAIWHAKAHAERE HEI TE MUTUNGA O TE WHAKAMĀTAUTAU.

Question	Mark
ONE	
TWO	
THREE	
FOUR	
FIVE	
TOTAL	/40

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QUESTION
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English translation of the wording on the front cover

93202MA

Scholarship 2017 Calculus

9.30 a.m. Friday 10 November 2017
Time allowed: Three hours
Total marks: 40

ANSWER BOOKLET

There are five questions in this examination. Answer ALL FIVE questions.

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

Write ALL your answers in this booklet.

Make sure that you have Formulae and Tables Booklet S–CALCF.

Show ALL working. Start your answer to each question on a new page. Carefully number each question.

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 2–27 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.