

### **NSW Education Standards Authority**

2022 HIGHER SCHOOL CERTIFICATE EXAMINATION

# **Mathematics Extension 1**

## General **Instructions**

- \* Reading time -- 7 minutes
- \* Working time -- 80 minutes
- \* Write using green pen
- \* Calculators approved by NESA may be used
- \* A reference sheet is provided at the back of this paper
- \* For questions in Section II, show relevant mathematical reasoning and/or calculations
- \* Write your Centre Number and Student Number on all Writing Booklets attached

### Total marks: Section I -- 7 marks

47

- \* Attempt Questions 1-7
- \* Allow about 7 minutes for this section

### Section II -- 40 marks

- \* Attempt Questions 8-10
- \* Allow about 73 minutes for this section

# **Section I**

7 marks Attempt Questions 1--7 Allow about 7 minutes for this section

Use the multiple-choice answer sheet for Questions 1--7.

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1. Given that =1 and =1 , evaluate =1
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