



NSW Education Standards Authority

**2022** HIGHER SCHOOL CERTIFICATE EXAMINATION

# Mathematics Extension 1

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**General****Instructions**

- \* Reading time -- 10 minutes
- \* Working time -- 2 hours
- \* Write using black 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 the Question 12 Writing Booklet attached

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**Total marks:**  
**70****Section I -- 10 marks** (pages 2-6)

- \* Attempt Questions 1-10
- \* Allow about 15 minutes for this section

**Section II -- 60 marks** (pages 2-6)

- \* Attempt Questions 11-14
- \* Allow about 1 hour and 45 minutes for this section

## Section I

**10 marks**

**Attempt Questions 1--10**

**Allow about 15 minutes for this section**

Use the multiple-choice answer sheet for Questions 1--10.

~~Given that~~ \_\_\_\_\_

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