



NSW Education Standards Authority

2022 HIGHER SCHOOL CERTIFICATE EXAMINATION

Mathematics Extension 1

General**Instructions**

- * Reading time -- 8 minutes
- * Working time -- 90 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:
53**Section I -- 8 marks**

- * Attempt Questions 1-8
- * Allow about 8 minutes for this section

Section II -- 45 marks

- * Attempt Questions 9-11
- * Allow about 82 minutes for this section

Section I

8 marks

Attempt Questions 1--8

Allow about 8 minutes for this section

Use the multiple-choice answer sheet for Questions 1--8.

1. \sin ratio

(A) 1

(B) 2

(C) 3

(D) 4

2. \sin $\frac{\pi}{4}$ ratio

(A) 1

(B) 2

(C) 3

(D) 4

3. \sin $\frac{\pi}{4}$ ratio

(A) 1

(B) 2

(C) 3

(D) 4

4. \sin ratio

(A) 1

(B) 2

(C) 3

(D) 4

5. sus ratio

(A) 1

(B) 2

(C) 3

(D) 4

6. sus \perp ratio

(A) 1

(B) 2

(C) 3

(D) 4

7. sus \perp ratio

(A) 1

(B) 2

(C) 3

(D) 4

8. sus \perp ratio

(A) 1

(B) 2

(C) 3

(D) 4