

NSW Education Standards Authority

2022 HIGHER SCHOOL CERTIFICATE EXAMINATION

Mathematics Extension 1

General

- * Reading time -- 10 minutes
- Instructions
- * 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

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

70

- * 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.

1 Given that OP = (-3, 1) and OQ = (2, 5), what is PQ >?

A. \$(1, -6)\$

B. \$(-1, 6)\$

C. \$(5, 4)\$

D. \$(-5, -4)\$