

SUPERVISOR TO ATTACH
PROCESSING LABEL HERE

Write your student number in the boxes above. Letter

Mathematical Methods

Examination 1

Question and Answer Book

VCE Examination - Wednesday 5 November 2026

- Reading time is 15 minutes
- Writing time is 1 hour

Materials supplied

- Question and Answer Book of ? pages

Instructions

Students are not permitted to bring any technology (calculators or software), or notes of any kind, into the examination room.

Students are not permitted to bring mobile phones and/or any unauthorised electronic devices into the examination room.

Contents

1 questions (6 marks)

pages

2-2

Question 1 (6 marks)

Let $f : [0, 2\pi] \rightarrow \mathbb{R}$, $f(x) = 2\cos(2x) - 1$.

- a. State the range of f . 1 mark

- b. Solve $f(x) = 0$ for x . 3 marks

- c. Sketch the graph of $y = f(x)$ for $x \in [-\pi, \pi]$ on the axes below. 2 marks
