



- Candidates answer on the Answer Booklet
- OCR Supplied Materials:
- 8 page Answer Booklet
 - MEI Examination Formulae and Tables (MF2)
- Other Materials Required:
- Scientific or graphical calculator

INSTRUCTIONS TO CANDIDATES

- Write your name clearly in capital letters, your Centre Number and Candidate Number in the spaces provided on the Answer Booklet.
- Use black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Answer **all** the questions.
- Do **not** write in the bar codes.
- You are permitted to use a graphical calculator in this paper.
- Final answers should be given to a degree of accuracy appropriate to the context.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- You are advised that an answer may receive **no marks** unless you show sufficient detail of the working to indicate that a correct method is being used.
- The total number of marks for this paper is 72.
- This document consists of 4 pages. Any blank pages are indicated.

NOTE

- This paper will be followed by Paper B: Comprehension.

$$\cos 2\theta - 2\cos^2\theta = 1$$

$$1 - 2\sin^2\theta$$

$$\cos^2\theta - \sin^2\theta$$

$$\sin^2\theta = \frac{1}{2}(1 - (\cos 2\theta))$$

$$\cos^2\theta = \frac{1}{2}(1 + (\cos 2\theta))$$