

6665/01

Edexcel GCE

Core Mathematics C3

Advanced Subsidiary

Monday 20 June 2005 – Morning
Time: 1 hour 30 minutes

Materials required for examination
Mathematical Formulae (9606)

Items included with question paper
Nil

Candidates may use any calculator EXCEPT those with the facility for symbolic algebra, differentiation and/or integration. They may use any calculator with the facility for basic arithmetic operations. TI 80, TI 81, Casio FX1.99VG, Berlin Padco 48P 48G.

Instructions to Candidates

Write the name of the examining body (Edexcel), your centre number, candidate number, the main title (Core Mathematics C3), the paper reference (6665), your surname, initials and signature.

Information for Candidates

A booklet 'Mathematical Formulae and Statistical Tables' is provided.
Full marks may be obtained for answers to ALL questions.
There are 7 questions in this question paper. The total mark for this paper is 75.

Advice to Candidates

You must ensure that your answers to parts of questions are clearly labelled.
You must show sufficient working to make your methods clear to the Examiner. Answers without working may gain no credit.

1. () Given that $\sin^2 \theta + \cos^2 \theta = 1$, show that $1 + \tan^2 \theta = \sec^2 \theta$. (3)

() Solve, for $0 < \theta < 360^\circ$, the equation

$$2 \tan^2 \theta + \sec \theta = 1,$$

giving your answers to 1 decimal place. (6)

2. () Differentiate with respect to

(i) $3 \sin^2 \theta + \sec 2\theta$, (3)

(ii) $(1 + \ln x)^{1/2}$. (3)

Given that $y = \frac{5 - x - 10 - 9}{(x + 2)^2} = 1$,

() show that $\frac{dy}{dx} = -\frac{1}{(x + 2)^3}$. (6)

3. The function f is defined by

$$f(x) = \frac{5 + 1}{x + 2} - \frac{3}{x - 1}, \quad x > 1.$$

() Show that $f'(x) = \frac{2}{(x + 2)^2} - \frac{1}{(x - 1)^2}$. (4)

() Find $f'(1)$. (3)

The function g is defined by

$$g(x) = x^2 - 5, \quad x \in \mathbb{R}.$$

() Solve $fg(x) = 1$. (6)

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Jin-Ying Zhang



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