

2010 Maths Advanced Higher Finalised Marking Instructions

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2010 Maths Advanced Higher
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Mathematics 2010 Marks awarded
for 1. (6) (a) For $f(x) = e^x \sin x^2$,
 $f'(x) = e^x \sin x^2 + e^x (2x \cos x^2)$.
1M using the Product Rule 1,1 one
for each correct term (b) Method 1
For $g(x) = \frac{x^3 (1 + \tan x)}{1 + \tan x}$ $g'(x) = \frac{3x^2(1 + \tan x) - x^3 \sec^2 x (1 + \tan x)^2}{(1 + \tan x)^2}$ 1M using the Quotient Rule 1
first term and denominator 1
second term Method 2 2010 Maths
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Advanced Higher Mathematics 2010
Marks awarded for 1. (6) (a) For $f(x) = e^x \sin x^2$, $f'(x) = e^x \sin x^2 +$

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$e^x (2x \cos x^2)$. 1M using the Product Rule 1,1 one for each correct term

(b) Method 1 For $g(x) = x^3 (1 + \tan x)$ $g'(x) =$. 2010 Maths

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Solutions A1. (a) The reference range is $m - 1.96s$. 1 This yields (35.4, 37.0) as the required range.

1 (b) Mean = $1.8 \times 36.2 + 32$ fi 97.2. 1 Standard deviation = 1.8×0.4 {NB excludes + 32} 1 = 0.72. 1

A2. (a) Host opens B Host opens C Goat 1/12 You open A Car 1/12 You open C Goat 1/12 You open A Car 1/12 You open B You open A

2010 Applied Maths Advanced Higher – Statistics Finalised ... Detailed Marking Instructions : Higher Mathematics 2010 Vs 12 Page 5 9 Normally, do not penalise: •

Working subsequent to a correct

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answer; • Omission of units; • Legitimate variations in numerical answers; • Bad form; • Correct working in the wrong part of a question; unless specifically mentioned in the marking scheme.

10 No piece of working should be ignored without careful ... 2010

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Higher Applied Mathematics 2010

Mechanics Section A1. The

displacements of the lorry and car are given by $s_L = Ut$ $s_C = \frac{1}{2}at^2$, 1

respectively. The lorry and car draw level when $\frac{1}{2}at^2 = Ut$ $1 \hat{=} t = \frac{2U}{a}$

(since $t > 0$). 1 The distance

travelled by the car before the

vehicles draw level is $s = U \times \frac{2U}{a}$

$= \frac{2U^2}{a}$. 1 {Alternative methods

are possible.} A2. 2010 Applied

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Mechanics Finalised ... Title:

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2A Solutions for AH maths 2009 1.

(a) $f(x) = (x + 1)^3 - 2(x - 2)^3$ $f'(x) = 3(x + 1)^2 + 3(x - 2)^2$

$1 = (x - 2)^2 ((x - 2) + 3(x + 1)) = (x - 2)^2 (4x + 1)$

$1 = 0$ when $x = 2$ and when $x = 1$

4. 1 (b) Method 1 $x^2 + y = y^2 - 5$ \Rightarrow

$x^2 + xy = y^2 - 5y$ $2x + x \frac{dy}{dx} + y = 2y \frac{dy}{dx} - 5 \frac{dy}{dx}$

$2E1 6 + 3 \frac{dy}{dx} - 1 = 2 \frac{dy}{dx} - 5 \frac{dy}{dx}$

$5 \frac{dy}{dx} = 10 \frac{dy}{dx} \Rightarrow \frac{dy}{dx} = -1$

2 1 Note: a candidate may obtain and ...

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common difference be d . General

term is $a + (n - 1)d$

1 So $a + 19d$

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$= 97 \Rightarrow d = 5$ 1 Sum of an arithmetic series is $\frac{n}{2} [2a + (n - 1)d]$ Required sum is $\frac{50}{2} \{4 + 49 \times 5\} = 6225$ 2. (a) $f(x) = \cos^{-1}(3x)$ $f'(x) = -\frac{1}{\sqrt{1 - (3x)^2}} \times 3 = -\frac{3}{\sqrt{1 - 9x^2}}$ (b) $\frac{dx}{d\theta} = 2 \sec \theta \tan \theta$, $\frac{dy}{d\theta} = 3 \dots$ 2008

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Dalkeith. 2007 Mathematics

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... 2002 Mathematics Advanced

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(Mathematics 1 and 2) A1. $\Rightarrow 5 \ 1132$

$2112 \ 32 \ 55 \ 11 \ 3 \ 2 \ -1 \ - \ -2 \ -1 \ -4$

$-1 \Rightarrow 5 \ 11 \ 3 \ 2 \ -1 \ - \ -2 \ -1 \ -1 \ z =$

$1; y = -3; x = 2$ Second row 1 mark

Third row 1 mark Third row 1 mark

Values 2E1. Total 5 2002

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Grade Criteria D (10-12) C (13-14) B
(15-17) A (18-19) A+ (20-22) A++
(23+) Structure Introduction and
Conclusion The structure is weak
with a poorly organised
presentation of the arguments. The
introduction and conclusion are
ineffective. The structure displays a
basic organisation but this may be
loose.

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