Edexcel
A Level
<b>A Level Maths</b> Edexcel Core Maths C1 June 2012 Model Solutions
Name:
M M E Mathsmadeeasy.co.uk
Total Marks:

Edexcel June 12 CI ١.  $\int 6x^2 + \frac{2}{x^2} + 5 dx$  $\int 6x^{2} + 2x^{2} + 5 dx$   $2x^{3} - 2x^{-1} + 5x + c$   $(32)^{3/5} = (5\sqrt{32})^{3} = 2^{3} - 8$ 2a. 26.  $\left(\frac{\mu}{25x^{4}}\right)^{\gamma_{2}} = \frac{\sqrt{\mu}}{\sqrt{2}x^{4}}$ 2 3 2 × (512+58) 2 ( 12 + 18) (12 - 18)(12+18) = 2512 + 258 : 453 + 452 13+12 Ŧ y = 5x - 6x + 2x - 3 La.  $\frac{dy}{dx} = 15x^2 - \frac{24}{3}x^{1/3} + 2$ 15x - 8x 43 + 2 46.  $= 30x = \frac{8}{3}x$ 

5a.	$a_{ny}$ , $2a_{n-c}$ , $a_{1} = 3$
	$a_2 = 2a_1 - c$ = 2(3) - c = 6 - c
SL	$a_3 : 2a_2 - c$ = 2(6-c) - c = 12 - 3c
Se.	$\sum_{i=1}^{4} a_i \ i \ 23  (=)  a_1 + a_2 + a_3 + a_4 \ i \ 23$
	$a_{\mu} = 2a_{3} - c$ = $2(12-3c) - c$
	= 24 - 7c 3 + 6 - c + 12 - 3c + 24 - 7c = 7, 23 45 - 11c = 7, 23 22 = 7, 11c 2 = 7, c
6.	AP : a = 10  d = 5 $U_{15} = a + 1 L d$ = 10 + 1 L (5) = 80
<b>ω</b> .	$S_{10} = \frac{1}{2} (60) (2(10) + (60 - 1)5)$ = 30 (20 + 295) = 30 (315) = 94.50 = f=94.50

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6. 
$$PP. a : 10 d \cdot 10$$
  
 $S_n := 6300 : \frac{m}{2} \left\{ 2(10) + (m-1)10 \right\}$   
 $6300 : \frac{m}{2} \left\{ 2(10) + (m-1)10 \right\}$   
 $i \frac{m}{2} \cdot 10(m+1)$   
 $i \frac{300}{200} : 5m(m+1)$   
 $i \frac{100}{200} : m(m+1)$   
 $i \frac{100}{200} : m(m+1)$   
 $i \frac{100}{200} : m(m+1)$   
 $i \frac{100}{200} : \frac{1}{2}(10) - \frac{6}{10} + 3$   
 $i \frac{2}{10} - 35 + 3$   
 $i \frac{2}{10} - 1 = 2(x-10)$   
 $i \frac{1}{2} + 1 = 2x - 8$   
 $j = 2x - 8$   
 $i \frac{1}{10}x^{2} - 12x^{112} + 3x + c$   
 $F(1x) = \int f'(1x) dx = \int \frac{1}{2}x - 6x^{-1/2} + 3 dx$   
 $i \frac{1}{10}x^{2} - 12x^{112} + 3x + c$   
 $F(1x) = -1 = i \frac{1}{10}(11)^{12} - 12(11)^{12} + 3(10) + c = -1$   
 $i = -21i + 12i + c = -1$   
 $i = 7i$   
 $i = F(1x) = \frac{1}{10}x^{2} - 12x^{112} + 3x + 7$ 

$$\begin{aligned}
\delta_{n} & \lim_{k \to -S^{-} = 2^{2} = q - (x + p)^{2} \\
&= \begin{cases} x^{2} - \ln x + 5 \\ - f (x - 2)^{2} - \ln + 5 \\ - f (x - 2)^{2} = q - (x + p)^{2} \\
&= -f + \frac{1}{2} \\
\delta_{n}^{2} - \ln \alpha & : \quad \mu_{n}^{2} - \mu_{n}(x + p)^{2} \\
&= -h \\
\delta_{n}^{2} - \ln \alpha & : \quad \mu_{n}^{2} - \mu_{n}(x + p)^{2} \\
&= -h \\
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$$\begin{aligned}
\mathbf{q}_{\mathbf{e}} & \begin{array}{c} \mathbf{y} : \frac{1}{2}\mathbf{x} - \frac{\mathbf{z}}{\mathbf{u}} & 0 \\ \mathbf{y} \cdot \mathbf{g} - 2\mathbf{x} & \end{array} \\
& \begin{array}{c} \mathbf{y} \cdot \mathbf{g} - 2\mathbf{x} & \end{array} \\
& \begin{array}{c} \mathbf{y} \cdot \mathbf{g} - 2\mathbf{x} & \end{array} \\
& \begin{array}{c} \mathbf{z} \mathbf{x} - \frac{\mathbf{z}}{\mathbf{u}} & = \mathbf{g} - 2\mathbf{x} & \mathbf{u} \\ 2\mathbf{x} - 3 & = 32 - \mathbf{g}\mathbf{x} \\ 10\mathbf{x} & = 35 \\ \mathbf{x} \cdot \mathbf{g} - 1 \\ = \mathbf{i} \\ & \begin{array}{c} \mathbf{y} \cdot \mathbf{g} - 2(\mathbf{y}_{2}) \\ = \mathbf{g} - 1 \\ = \mathbf{i} \\ & \begin{array}{c} \mathbf{y} \cdot \mathbf{g} - 2(\mathbf{g}_{2}) \\ = \mathbf{g} - 1 \\ = \mathbf{i} \\ & \begin{array}{c} \mathbf{g} \mathbf{g} \\ \mathbf{g} \\ \mathbf{f} \\$$

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