

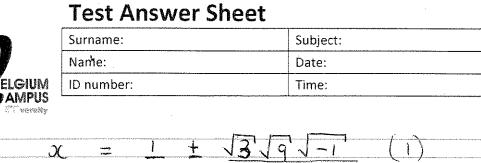
## **Test Answer Sheet**

Surname:	Subject:	
Name:	Date:	
ID number:	Time:	

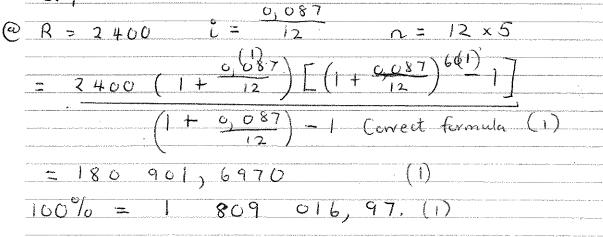
APRIL 2016 EXAM1 memo.	Invigilated by:
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x, > 2	Remarked by:
$\alpha_1 > 2$	Date:
$\alpha \leq 5$	
22 \$ 6	
4×1 + 5×2 < 40 1	So no
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$\alpha_1, \alpha_2 > 0$	sspace
@ Plotting 7	
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6 Slns.	
$\alpha_1 = 3$   $\alpha_2 = 2$   $\alpha_3 = 4 + 400$	37 AUTA
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	or days.
@ 5 <u> </u>	
$\Sigma 3^{\circ} = 3^{\circ} + 3^{\circ} + 3^{\circ} + 3^{\circ} + 3^{\circ}$	
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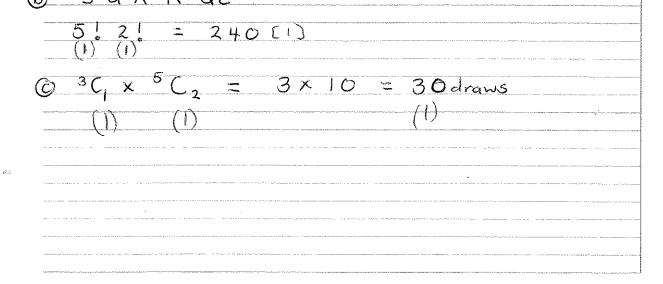
Do not write in this space, it is provided for marking

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6,4,5,12,4,096,3,2768,2,62144
    T_5 = ar^4 = 6,4 \times 0,8^+
                   = 2,62144 [1]
    T_n = a + (n-1)d
        = 6 + (n-1)(-3) [1]
     = 6 - 3n + 3
         = 9 - 3n. [1]
 03
 ① (x - 2y)^2 - (20c - y)^2
 Dipperence of two squares.
 [(x-2y)+(2x-y)][(x-2y)-(2x-y)]
 [ x-24+2x-4] [ x-24-2x+4]
(1) \left[ 3\alpha - 3y \right] \left[ -\alpha - y \right] (1)
 6 2x - 7 = 4x^2
 4sc^2 - 2st + 7 = 0
 x^2 - \frac{1}{2}x + \frac{7}{4} = 0
 3\ell^2 - \frac{1}{2}\chi = -7/4(1)
 x^2 - \frac{1}{2}x + (\frac{1}{4})^2 = -\frac{7}{4} + (\frac{1}{4})^2
 (5c - \frac{1}{4})^{2} = -\frac{27}{16}
5c - \frac{1}{4} = \pm \sqrt{-\frac{27}{16}}
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$$=1(-1-(-6))-3(2-(-15))+2(4-(-5))[1]$$

Capacters:

$$\begin{pmatrix}
5 & -17 & 9 \\
1 & -9 & 13 & 4\frac{1}{2} \\
-7 & 7 & -7
\end{pmatrix}$$

$$\alpha = 2 \left( \frac{1}{2} \right) \cdot y = -3 \left( \frac{1}{2} \right) \cdot z = 5 \left( \frac{1}{2} \right)$$

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6  $\cos \theta = \frac{\vec{c}_1 \cdot \vec{b}}{|a| |b|}$  $\vec{a} \cdot \vec{b} = 8 + 15 + 28 = 51$  (1)

 $|\vec{a}| = \sqrt{16 + 9 + 49} = \sqrt{74} (1) = 8,602 \text{ units}$  $|\vec{b}| = \sqrt{4 + 25 + 16} = \sqrt{45} (1) 3\sqrt{5} = 6,708 \text{ units}$ 

 $\begin{array}{c} Cos \Theta = 51 \\ \hline \sqrt{74 J 45} \\ = 0,883787916 \end{array}$ 

 $\theta = 27,9^{\circ}$  (27,89727103°) [1]

lug x = 2-2 [1]

 $\log_{16} x = \frac{1}{4}$   $x = \frac{1}{6} + \text{ fid}$ 

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a- V32 +4
     3x+4
-x)( oc + √3 oc +4
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