## **GR 12 MATHS – EXAM MEMOS**

#### **NATIONAL NOV 2014 PAPER 1**

#### ALGEBRA AND EQUATIONS AND INEQUALITIES (21)

1.12 
$$3x^2 - 2x - 14 = 0$$
  

$$\therefore x = \frac{-(-2) \pm \sqrt{(-2)^2 - 4(3)(-54)}}{2(3)}$$

$$\therefore x = \frac{2 \pm \sqrt{3/2}}{6}$$

$$\therefore = 2,52 \text{ or } -1,85 \le$$

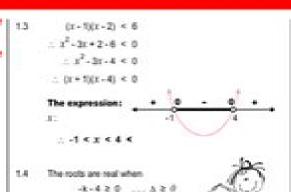


1.1.3 
$$2^{x+2} + 2^x = 20$$
  
 $\therefore 2^x, 2^2 + 2^x = 20$   
 $\therefore 2^x (4 + 1) = 20$   
 $\Rightarrow 5$   $\Rightarrow 2^x = 14$   
 $\Rightarrow x = 2 \le 1$ 

1.2  $x = 2y + 3 \dots 0$ 

$$3x^2 - 5xy = 24 + 16y \dots 6$$
  
**0** in **6**:  $\therefore 3(2y + 3)^2 - 5y(2y + 3) = 24 + 16y = 0$   
 $\therefore 3(4y^2 + 12y + 9) - 10y^2 - 15y - 24 - 16y = 0$   
 $\therefore 12y^2 + 38y + 27 - 10y^2 - 15y - 24 - 16y = 0$   
 $\therefore 2y^2 + 5y + 3 = 0$   
 $\therefore (2y + 3)(y + 1) = 0$   
 $\therefore 2y + 3 = 0 \text{ or } y + 1 = 0$   
 $\therefore 2y + 3 = 0 \text{ or } y + 1 = 0$   
 $\therefore 2y + 3 = 0 \text{ or } y + 1 = 0$ 

**0**: For 
$$y = -\frac{3}{2}$$
:  $x = 2(-\frac{3}{2}) + 3 = -3 + 3 = 0$   
**8**. For  $y = -1$ :  $x = 2(-1) + 3 = -2 + 3 = 1$   
 $\therefore$  The solution:  $(0; -\frac{3}{2})$  or  $(1; -1) < 0$ 





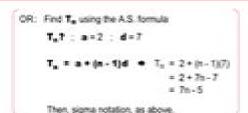
#### PATTERNS AND SEQUENCES [31]

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(4) ○ (1) ★ (4) ★ (

2.3 
$$\sum_{n=1}^{20} (2n-8) < \dots \text{ if you found } T_n \text{ in 2.2}$$

$$[OR: \nabla_{(17-5)} < \dots]$$



2.4 S<sub>n</sub> = 
$$\frac{n}{2}$$
(a + T<sub>n</sub>), were m = 251; a = 2; T<sub>n</sub> = 1 752  
... S<sub>251</sub> =  $\frac{251}{2}$ (2 + 1 752)  
= 220 127 <

OR:  

$$S_n = \frac{n}{2} [2n + (n - 1)d]$$
, were  $n = 251$ ;  $n = 2$ ;  $d = 7$   
.:  $S_{251} = \frac{251}{2} [2(2) + (251 - 1)(7)]$   
= 220 127 <

OR: By impection, after 16 every 4<sup>th</sup> term is divisible by 4.

So, imagining T<sub>II</sub> to be inserted at the start, determine the number of groups of 4 terms up to T<sub>201</sub>.

The number of groups = 
$$\frac{262}{4}$$
 ...  $I = 251$  ... 63 terms divisible by 4. 4

- a = 63

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