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
$$2^{x+2} + 2^x = 20$$

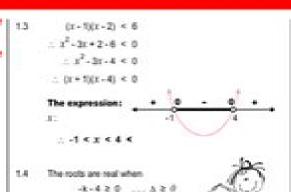
 $\therefore 2^x, 2^2 + 2^x = 20$
 $\therefore 2^x (4 + 1) = 20$
 $\Rightarrow 5$ $\Rightarrow 2^x = 14$
 $\Rightarrow x = 2 \le 1$

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 $(1; -1) < 0$





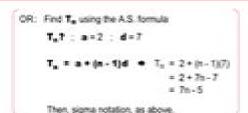
PATTERNS AND SEQUENCES [31]

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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_n =
$$\frac{n}{2}$$
(a + T_n), were m = 251; a = 2; T_n = 1 752
... S₂₅₁ = $\frac{251}{2}$ (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 4th term is divisible by 4.

So, imagining T_{II} to be inserted at the start, determine the number of groups of 4 terms up to T₂₀₁.

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

- a = 63

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Table of Contents Maths Guideline Grade 12 2014

- 1. Understanding the eBook Maths Guideline Grade 12 2014
 - The Rise of Digital Reading Maths Guideline Grade 12 2014
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Maths Guideline Grade 12 2014
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Maths Guideline Grade 12 2014
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Maths Guideline Grade 12 2014
 - Personalized Recommendations
 - Maths Guideline Grade 12 2014 User Reviews and Ratings
 - Maths Guideline Grade 12 2014 and Bestseller Lists
- 5. Accessing Maths Guideline Grade 12 2014 Free and Paid eBooks

- Maths Guideline Grade 12 2014 Public Domain eBooks
- Maths Guideline Grade 12 2014 eBook Subscription Services
- Maths Guideline Grade 12 2014 Budget-Friendly Options
- 6. Navigating Maths Guideline Grade 12 2014 eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Maths Guideline Grade 12 2014 Compatibility with Devices
 - Maths Guideline Grade 12 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Guideline Grade 12 2014
 - Highlighting and Note-Taking Maths Guideline Grade 12 2014
 - Interactive Elements Maths Guideline Grade 12 2014
- 8. Staying Engaged with Maths Guideline Grade 12 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Guideline Grade 12 2014
- 9. Balancing eBooks and Physical Books Maths Guideline Grade 12 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Guideline Grade 12 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Guideline Grade 12 2014
 - Setting Reading Goals Maths Guideline Grade 12 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Guideline Grade 12 2014
 - Fact-Checking eBook Content of Maths Guideline Grade 12 2014
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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