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

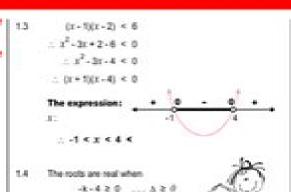
 $\therefore 2^x, 2^2 + 2^x = 20$
 $\therefore 2^x (4 + 1) = 20$
 $\Rightarrow 5$ $\Rightarrow 2^x = 14$
 $\Rightarrow x = 2 \le 1$

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 $(1; -1) < 0$





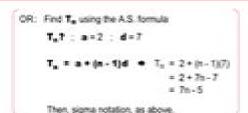
PATTERNS AND SEQUENCES [31]

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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

Grade 12 2014 Examplers

Shasha Hu

Grade	12	2014	Examplers:	

Grade 12 2014 Examplers Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Grade 12 2014 Examplers**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Grade 12 2014 Examplers

- 1. Understanding the eBook Grade 12 2014 Examplers
 - The Rise of Digital Reading Grade 12 2014 Examplers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Grade 12 2014 Examplers
 - 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 Grade 12 2014 Examplers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Grade 12 2014 Examplers
 - Personalized Recommendations
 - Grade 12 2014 Examplers User Reviews and Ratings

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