GR 10 MATHS – EXAM MEMOS

NATIONAL EXEMPLAR PAPER 1

1.1.2
$$\frac{x^3+1}{x^2-x+1}$$
 $\frac{4x^2-3x-1}{4x+1}$

$$= \frac{(x+1)(x^2-x+1)}{(x^2-x+1)} \cdot \frac{(4x+1)(x-1)}{(4x+1)}$$

$$= x + 1 - x + 1$$

2 K



$$\pm x = \frac{245}{999}$$

... i.e.
$$x$$
 can be expressed as $\frac{d}{b}$ where $a \notin b \in \mathbb{Z}$

... It is a rational number

$$2.1.1$$
 $x^2 - 4x = 21$

$$x^2 - 4x - 21 = 0$$

$$(x+3)(x-7) = 0$$

$$-x+3=0$$
 or $x-7=0$

$$x - 7 = 0$$

$$= \left(\frac{5}{3}\right)^{\frac{4}{5}} = \left(2^{5}\right)^{\frac{4}{5}}$$

$$= \pi = 2^4$$



2.1.3
$$\frac{2\sqrt{x}}{38} = R$$

$$\times$$
 35) $\therefore 2\sqrt{x} = 35R$

$$-2$$
) $\therefore \sqrt{\pi} = \frac{3SR}{2}$

Square:
$$x = \frac{9 S^2 R^2}{4}$$



3.1.1 The 1st 3 terms:

3.1.2 The difference is -4

$$\therefore$$
 In $T_n = an + b$: $a = -4$

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Table of Contents Grade Mathematics Paper Exemplar Memorum

- 1. Understanding the eBook Grade Mathematics Paper Exemplar Memorum
 - The Rise of Digital Reading Grade Mathematics Paper Exemplar Memorum
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Grade Mathematics Paper Exemplar Memorum
 - 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 Mathematics Paper Exemplar Memorum
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Grade Mathematics Paper Exemplar Memorum
 - Personalized Recommendations
 - Grade Mathematics Paper Exemplar Memorum User Reviews and Ratings
 - Grade Mathematics Paper Exemplar Memorum and Bestseller Lists
- 5. Accessing Grade Mathematics Paper Exemplar Memorum Free and Paid eBooks

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