

# GR 10 MATHS – EXAM MEMOS

**M**  
**2**

## NATIONAL EXEMPLAR PAPER 1

$$1.1.1 \quad (m-2n)(m^2-6mn+n^2)$$

$$= m^3 - 6m^2n - mn^2 - 2m^2n + 12mn^2 + 2n^3$$

$$= m^3 - 8m^2n + 11mn^2 + 2n^3 \quad \leftarrow$$

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

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

$$= (x+1) - (x-1)$$

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

$$= 2 \quad \leftarrow$$

$$1.2.1 \quad 6x^2-7x-20$$

$$= (2x-5)(3x+4) \quad \leftarrow$$

$$1.2.2 \quad a^2+a-2ab-2b$$

$$= a(a+1) - 2b(a+1)$$

$$= (a+1)(a-2b) \quad \leftarrow$$

$$1.3 \quad 49 < 51 < 64 \quad \dots \text{ i.e. } 51 \text{ lies between } 49 \text{ and } 64$$

$$\therefore 7 < \sqrt{51} < 8 \quad \dots \text{ taking the square root}$$

$$\text{ i.e. } \sqrt{51} \text{ lies between } 7 \text{ and } 8 \quad \leftarrow$$



$$1.4 \quad \text{Let } x = 0.\dot{2}4\dot{5}$$

$$\therefore x = 0.245245\dots \quad \dots \text{ ①}$$

$$\times 1000) \therefore 1000x = 245.245245\dots \quad \dots \text{ ②}$$

$$\text{ ②} - \text{ ①}: \therefore 999x = 245$$

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

$\dots$  i.e.  $x$  can be expressed as  $\frac{a}{b}$  where

$$a \in \mathbb{Z} \text{ and } b \in \mathbb{Z}$$

$\therefore x$  is a rational number

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

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

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

$$\therefore x+3=0 \quad \text{ or } \quad x-7=0$$

$$\therefore x=-3 \quad \leftarrow \quad \therefore x=7 \quad \leftarrow$$

$$2.1.2 \quad 3x^{\frac{5}{3}}=96$$

$$+3) \therefore x^{\frac{5}{3}}=32$$

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

$$\therefore x = 2^3$$

$$\therefore x = 8 \quad \leftarrow$$



$$2.1.3 \quad \frac{2\sqrt{x}}{3S} = R$$

$$\times 3S) \therefore 2\sqrt{x} = 3SR$$

$$+2) \therefore \sqrt{x} = \frac{3SR}{2}$$

$$\text{ Square: } \therefore x = \frac{9S^2R^2}{4} \quad \leftarrow$$

$$2.2 \quad 6q+7p=3 \quad \dots \text{ ①}$$

$$2q+p=5 \quad \dots \text{ ②}$$

$$\text{ ②} \times 3: 6q+3p=15 \quad \dots \text{ ③}$$

$$\text{ ③} - \text{ ①}: \therefore 4p = -12$$

$$\therefore p = -3 \quad \leftarrow$$

$$\text{ ②}: \therefore 2q-3=5$$

$$\therefore 2q=8$$

$$\therefore q=4 \quad \leftarrow$$



$$3.1.1 \quad \text{The } 1^{\text{st}} \text{ 3 terms:}$$

$$3(3)+1 : 2(3) : 3(3)-7$$

$$\therefore 10 : 6 : 2 \quad \leftarrow$$

$$3.1.2 \quad \text{The difference is } -4$$

$$\therefore \text{ in } T_n = an+b: a=-4$$

$$\text{ \& } T_0 = b = 14 \quad \dots \text{ the term before the } 1^{\text{st}} \text{ term}$$

$$\therefore T_n = -4n + 14 \quad \leftarrow$$

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**Paul Carter**



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## **Table of Contents Grade 10 Pure Mathematics Paper 1 Exemplar November Caps**

1. Understanding the eBook Grade 10 Pure Mathematics Paper 1 Exemplar November Caps
  - The Rise of Digital Reading Grade 10 Pure Mathematics Paper 1 Exemplar November Caps
  - Advantages of eBooks Over Traditional Books
2. Identifying Grade 10 Pure Mathematics Paper 1 Exemplar November Caps
  - 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 10 Pure Mathematics Paper 1 Exemplar November Caps
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 10 Pure Mathematics Paper 1 Exemplar November Caps
  - Personalized Recommendations
  - Grade 10 Pure Mathematics Paper 1 Exemplar November Caps User Reviews and Ratings
  - Grade 10 Pure Mathematics Paper 1 Exemplar November Caps and Bestseller Lists

5. Accessing Grade 10 Pure Mathematics Paper 1 Exemplar November Caps Free and Paid eBooks
  - Grade 10 Pure Mathematics Paper 1 Exemplar November Caps Public Domain eBooks
  - Grade 10 Pure Mathematics Paper 1 Exemplar November Caps eBook Subscription Services
  - Grade 10 Pure Mathematics Paper 1 Exemplar November Caps Budget-Friendly Options
6. Navigating Grade 10 Pure Mathematics Paper 1 Exemplar November Caps eBook Formats
  - ePub, PDF, MOBI, and More
  - Grade 10 Pure Mathematics Paper 1 Exemplar November Caps Compatibility with Devices
  - Grade 10 Pure Mathematics Paper 1 Exemplar November Caps Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Grade 10 Pure Mathematics Paper 1 Exemplar November Caps
  - Highlighting and Note-Taking Grade 10 Pure Mathematics Paper 1 Exemplar November Caps
  - Interactive Elements Grade 10 Pure Mathematics Paper 1 Exemplar November Caps
8. Staying Engaged with Grade 10 Pure Mathematics Paper 1 Exemplar November Caps
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Grade 10 Pure Mathematics Paper 1 Exemplar November Caps
9. Balancing eBooks and Physical Books Grade 10 Pure Mathematics Paper 1 Exemplar November Caps
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Grade 10 Pure Mathematics Paper 1 Exemplar November Caps
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Grade 10 Pure Mathematics Paper 1 Exemplar November Caps
  - Setting Reading Goals Grade 10 Pure Mathematics Paper 1 Exemplar November Caps
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 10 Pure Mathematics Paper 1 Exemplar November Caps
  - Fact-Checking eBook Content of Grade 10 Pure Mathematics Paper 1 Exemplar November Caps
  - 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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