

## GRADE 9 MATHEMATICS NOVEMBER EXAMINATION PAPER 1

## QUESTION 1 Droose and write the correct letter on your answer sheet. 1.1 The constant value in the expression 1 CD ø. 12 How many terms are in the exp. CD - 1 1.3 Determine the following two terms in the s (3) 48:96 AL 3" 27.0 1.4 Prime numbers that lie between 8 and 21: 000 17-17-17-19 TABLE STORY And the Control 1.5 VITE # CD 74. 494.00 1907

NAMES AND ADDRESS.

Direct

Grade 9

|      | A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |  |
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|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6:1:6 |  |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |  |
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| QUE  | STION 2: WHOLE NUMBERS & INTEGERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |  |
| 2.1  | Write 245:15 in it's simplest form.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | (2)   |  |
| 2.20 | If it was region and it is the proof of the contraction of the contrac |       |  |
| -    | working at the same rate, will be needed to build the house in 4 days?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | (0)   |  |
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| 2.3  | John drove 620km in S and a half hours. Call to be a sense of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |  |
|      | Section 2 - Marie                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (3)   |  |
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| 2.4  | Will be a special filter over the advantage like at the filter of the filter.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |  |
|      | Write the prime factors in exponential form.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (4)   |  |
| 2.5  | Calculate the following:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |  |
|      | 251 (11.11) - 11.11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | (3)   |  |
|      | 252 (sk) = 25 to x=17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | (3)   |  |
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| QUE  | STION 3: EXPONENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |  |
| 1.1  | 5' - √81 + 3'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (2)   |  |
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| 3.2  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (2)   |  |
| 2.3  | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (0)   |  |
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| 1.4  | Vin grand                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | [10]  |  |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.479 |  |
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Navigaber

(1)

Page 17

1.6 If z = 2 the value of 3z 4 4z would be:

217 111

Grade S.

Paper I

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**Karin Nielsen-Saines** 

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#### Table of Contents Mathematics 2014 Memorandam Grade 9 Nov Dec

- 1. Understanding the eBook Mathematics 2014 Memorandam Grade 9 Nov Dec
  - The Rise of Digital Reading Mathematics 2014 Memorandam Grade 9 Nov Dec
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Mathematics 2014 Memorandam Grade 9 Nov Dec
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mathematics 2014 Memorandam Grade 9 Nov Dec
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mathematics 2014 Memorandam Grade 9 Nov Dec
  - Personalized Recommendations
  - Mathematics 2014 Memorandam Grade 9 Nov Dec User Reviews and Ratings
  - Mathematics 2014 Memorandam Grade 9 Nov Dec and Bestseller Lists
- 5. Accessing Mathematics 2014 Memorandam Grade 9 Nov Dec Free and Paid eBooks
  - Mathematics 2014 Memorandam Grade 9 Nov Dec Public Domain eBooks
  - Mathematics 2014 Memorandam Grade 9 Nov Dec eBook Subscription Services
  - Mathematics 2014 Memorandam Grade 9 Nov Dec Budget-Friendly Options
- 6. Navigating Mathematics 2014 Memorandam Grade 9 Nov Dec eBook Formats
  - o ePub, PDF, MOBI, and More
  - Mathematics 2014 Memorandam Grade 9 Nov Dec Compatibility with Devices
  - Mathematics 2014 Memorandam Grade 9 Nov Dec Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Mathematics 2014 Memorandam Grade 9 Nov Dec
  - Highlighting and Note-Taking Mathematics 2014 Memorandam Grade 9 Nov Dec
  - Interactive Elements Mathematics 2014 Memorandam Grade 9 Nov Dec
- 8. Staying Engaged with Mathematics 2014 Memorandam Grade 9 Nov Dec

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Mathematics 2014 Memorandam Grade 9 Nov Dec
- 9. Balancing eBooks and Physical Books Mathematics 2014 Memorandam Grade 9 Nov Dec
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Mathematics 2014 Memorandam Grade 9 Nov Dec
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics 2014 Memorandam Grade 9 Nov Dec
  - Setting Reading Goals Mathematics 2014 Memorandam Grade 9 Nov Dec
  - ∘ Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics 2014 Memorandam Grade 9 Nov Dec
  - o Fact-Checking eBook Content of Mathematics 2014 Memorandam Grade 9 Nov Dec
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - o Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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web feb 25 2021 in table 1 represents the low poor medium and high good indices respectively thus pmsm especially ipm is the best choice for nev traction motors 2 2 research of nevs pmsm a new type of dc saturated hybrid excitation motors was proposed in ref by introducing additional dc field excitation with step down dc

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web figure 1 illustrates driving a dc motor using a power mos bridge by driving the four mos in the correct sequence the direction of current flow through the motor is reversed consequently reversing the direction of the motor s rotation the motor torque is a function of the current amplitude the motor s internal parameters and the

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