

PROBLEMS OF THE DAY

PLANET MATHAMATICS

SEPTEMBER 20-24, 2021

1. How many elements are there in the intersection of the set of prime numbers and the set of even integers?

ANSWER: 1

SOLUTION:

There is only one prime number that is also even, which is 2. Therefore, there is only 1 element in the intersection of two sets.

2. Factor: $2a^3 - 2a^2 + 3b^3 + 3a^2b + 2ab - 2b$

ANSWER: $(a^2 + b)(2a + 3b - 2)$

SOLUTION:

We can factor the expression by grouping some terms.

$$\begin{aligned} 2a^3 - 2a^2 + 3b^3 + 3a^2b + 2ab - 2b &= (2a^3 - 2a^2 + 3a^2b) + (3b^3 + 2ab - 2b) \\ &= a^2(2a - 2 + 3b) + b(3b + 2a - 2) \\ &= (a^2 + b)(2a + 3b - 2) \end{aligned}$$

Therefore, the factored form of the expression is $(a^2 + b)(2a + 3b - 2)$.

3. What is the value of x if $x^2 - 5x + 4 = 0$?

ANSWER: $x = 1, 4$

SOLUTION:

We can find the value of x by factoring.

$$\begin{aligned} x^2 - 5x + 4 &= 0 \\ (x - 1)(x - 4) &= 0 \end{aligned}$$

By Zero Property of Equality,

$$\begin{aligned} x - 1 &= 0 \\ x &= 1 \\ x - 4 &= 0 \\ x &= 4 \end{aligned}$$

Therefore, $x = 1, 4$.

4. Find the 12th terms in the arithmetic sequence if $a_1 = 5$ and $d = 7$.

ANSWER:

SOLUTION:

We can use the formula for finding the n th terms of an arithmetic sequence, which is $a_n = a_1 + (n - 1)d$. Since $n = 12$, $a_1 = 5$ and $d = 7$, substituting those into the formula will give us

$$\begin{aligned} a_n &= a_1 + (n - 1)d \\ a_{12} &= 5 + (12 - 1)(7) \\ &= 5 + 11 \cdot 7 \\ &= 5 + 77 \\ &= 82 \end{aligned}$$

Therefore, $a_{12} =$ 82.

Mathematics November 2011 memorandum

Daniel F McAuley



Mathematics November 2011 memorandum:

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Table of Contents Mathamatics Nnovember 201memorandum

1. Understanding the eBook Mathamatics Nnovember 201memorandum
 - The Rise of Digital Reading Mathamatics Nnovember 201memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathamatics Nnovember 201memorandum
 - 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 Mathamatics Nnovember 201memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathamatics Nnovember 201memorandum
 - Personalized Recommendations
 - Mathamatics Nnovember 201memorandum User Reviews and Ratings
 - Mathamatics Nnovember 201memorandum and Bestseller Lists
5. Accessing Mathamatics Nnovember 201memorandum Free and Paid eBooks
 - Mathamatics Nnovember 201memorandum Public Domain eBooks
 - Mathamatics Nnovember 201memorandum eBook Subscription Services
 - Mathamatics Nnovember 201memorandum Budget-Friendly Options

6. Navigating Mathamatics Nnovember 201memorandum eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathamatics Nnovember 201memorandum Compatibility with Devices
 - Mathamatics Nnovember 201memorandum Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathamatics Nnovember 201memorandum
 - Highlighting and Note-Taking Mathamatics Nnovember 201memorandum
 - Interactive Elements Mathamatics Nnovember 201memorandum
8. Staying Engaged with Mathamatics Nnovember 201memorandum
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathamatics Nnovember 201memorandum
9. Balancing eBooks and Physical Books Mathamatics Nnovember 201memorandum
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathamatics Nnovember 201memorandum
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathamatics Nnovember 201memorandum
 - Setting Reading Goals Mathamatics Nnovember 201memorandum
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathamatics Nnovember 201memorandum
 - Fact-Checking eBook Content of Mathamatics Nnovember 201memorandum
 - 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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