

Mathematics

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(Chapter -2) (Polynomials) (Exercise 2.3)

(Class - 9)

Question 1:

Determine which of the following polynomials has $x + 1$ a factor:

(i) $x^3 + x^2 + x + 1$

(ii) $x^4 + x^3 + x^2 + x + 1$

(iii) $x^4 + 3x^3 + 3x^2 + x + 1$

(iv) $x^3 - x^2 - (2 + \sqrt{2})x + \sqrt{2}$

Answer 1:

(i) Let $p(x) = x^3 + x^2 + x + 1$

Putting $x + 1 = 0$, we get, $x = -1$

Using remainder theorem, when $p(x) = x^3 + x^2 + x + 1$ is divided by $x + 1$, remainder is given by $p(-1)$

$$= (-1)^3 + (-1)^2 + (-1) + 1$$

$$= -1 + 1 - 1 + 1 = 0$$

Since, remainder $p(-1) = 0$, hence $x + 1$ is a factor of $x^3 + x^2 + x + 1$.

(ii) Let $p(x) = x^4 + x^3 + x^2 + x + 1$

Putting $x + 1 = 0$, we get, $x = -1$

Using remainder theorem, when $p(x) = x^4 + x^3 + x^2 + x + 1$ is divided by $x + 1$, remainder is given by $p(-1)$

$$= (-1)^4 + (-1)^3 + (-1)^2 + (-1) + 1$$

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

Since, remainder $p(-1) \neq 0$, hence $x + 1$ is not a factor of $x^4 + x^3 + x^2 + x + 1$.

(iii) Let $p(x) = x^4 + 3x^3 + 3x^2 + x + 1$

Putting $x + 1 = 0$, we get, $x = -1$

Using remainder theorem, when $p(x) = x^4 + 3x^3 + 3x^2 + x + 1$ is divided by $x + 1$, remainder is given by $p(-1)$

$$= (-1)^4 + 3(-1)^3 + 3(-1)^2 + (-1) + 1$$

$$= 1 - 3 + 3 - 1 + 1 = 1$$

Since, remainder $p(-1) \neq 0$, hence $x + 1$ is not a factor of $x^4 + 3x^3 + 3x^2 + x + 1$.

(iv) Let $p(x) = x^3 - x^2 - (2 + \sqrt{2})x + \sqrt{2}$

Putting $x + 1 = 0$, we get, $x = -1$

Using remainder theorem, when $p(x) = x^3 - x^2 - (2 + \sqrt{2})x + \sqrt{2}$ is divided by $x + 1$, remainder is given by $p(-1)$

$$= (-1)^3 - (-1)^2 - (2 + \sqrt{2})(-1) + \sqrt{2}$$

$$= -1 - 1 + 2 + \sqrt{2} + \sqrt{2} = 2\sqrt{2}$$

Since, remainder $p(-1) \neq 0$, hence $x + 1$ is not a factor of $x^3 - x^2 - (2 + \sqrt{2})x + \sqrt{2}$.

Question 2:

Use the Factor Theorem to determine whether $g(x)$ is a factor of $p(x)$ in each of the following cases:

(i) $p(x) = 2x^3 + x^2 - 2x - 1$, $g(x) = x + 1$

(ii) $p(x) = x^3 + 3x^2 + 3x + 1$, $g(x) = x + 2$

(iii) $p(x) = x^3 - 4x^2 + x + 6$, $g(x) = x - 3$

Answer 2:

(i) $p(x) = 2x^3 + x^2 - 2x - 1$ and $g(x) = x + 1$

Putting $x + 1 = 0$, we get, $x = -1$

Using remainder theorem, when $p(x) = 2x^3 + x^2 - 2x - 1$ is divided by $g(x) = x + 1$, remainder is given by $p(-1)$

$$= (-1)^3 + (-1)^2 - 2(-1) - 1$$

$$= -1 + 1 - 1 + 1 = 0$$

Since, remainder $p(-1) = 0$, hence $g(x)$ is a factor of $p(x)$.

Ncert Maths Guide For Class 9

K Morrison



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Table of Contents Ncert Maths Guide For Class 9

1. Understanding the eBook Ncert Maths Guide For Class 9
 - The Rise of Digital Reading Ncert Maths Guide For Class 9
 - Advantages of eBooks Over Traditional Books
2. Identifying Ncert Maths Guide For Class 9
 - 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 Ncert Maths Guide For Class 9
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ncert Maths Guide For Class 9
 - Personalized Recommendations
 - Ncert Maths Guide For Class 9 User Reviews and Ratings
 - Ncert Maths Guide For Class 9 and Bestseller Lists
5. Accessing Ncert Maths Guide For Class 9 Free and Paid eBooks
 - Ncert Maths Guide For Class 9 Public Domain eBooks
 - Ncert Maths Guide For Class 9 eBook Subscription Services
 - Ncert Maths Guide For Class 9 Budget-Friendly Options

6. Navigating Ncert Maths Guide For Class 9 eBook Formats
 - ePub, PDF, MOBI, and More
 - Ncert Maths Guide For Class 9 Compatibility with Devices
 - Ncert Maths Guide For Class 9 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ncert Maths Guide For Class 9
 - Highlighting and Note-Taking Ncert Maths Guide For Class 9
 - Interactive Elements Ncert Maths Guide For Class 9
8. Staying Engaged with Ncert Maths Guide For Class 9
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ncert Maths Guide For Class 9
9. Balancing eBooks and Physical Books Ncert Maths Guide For Class 9
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ncert Maths Guide For Class 9
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ncert Maths Guide For Class 9
 - Setting Reading Goals Ncert Maths Guide For Class 9
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ncert Maths Guide For Class 9
 - Fact-Checking eBook Content of Ncert Maths Guide For Class 9
 - 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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is the quantity of incoming raw material against the quantity used in the resulting finished products, taking process waste and ... The Mass Balance Approach in Feedstock Substitution An established method to foster sustainability in existing infrastructure · Benefits of the Mass Balance Approach · Biomass balance and ChemCycling · ChemCycling ... 8. Mass Balance Mass-balance analysis may also be referred to as. “Material Flow Analysis” or “Substance Flow Analysis.” Table 8.1 provides several examples of possible inputs,. Mass Balance Approach in the Chemical Industry The mass balance Approach (MBA) is a process for determining the use of chemically recycled or bio-based feedstock in a final product when both recycled and ... BRC 3.9.2 Trace Exercise Sample Procedure to conduct a mass balance check · 1. Select a raw material lot number used in a finished product made within the last 6 months. · 2. Review storage ... UNDERSTANDING VULNERABILITY ASSESSMENT Table 6 provides examples of PRNs for different raw materials. Table 6 Priority ... Mass balance exercises at critical points in the supply chain - the mass ... ISSUE 8 FOOD SAFETY - Frequently Asked Questions - a worked example from the raw material supplier, which ... to conduct a mass balance test every 6 months for each claim or a single mass balance test every. Hospital Housekeeping: Training, Standards & Checklist Oct 23, 2022 — This lesson will discuss the benefits of hospital housekeeping and the importance of standards for housekeeping employees. This lesson will ... Quiz & Worksheet - Hospital Housekeeping Basics By taking this quiz, you'll measure your understanding of hospital housekeeping basics. The quiz/worksheet is printable, which allows you to view... 10-hour Healthcare: Housekeeping Safety Program Access 100% of our training material for free, including the study guide, knowledge check activities, course activities and resources, and course exams. Hospital Housekeeping Training Manual This convenient guide summarizes the contents of each of the hospital housekeeping training videos available through ISSA (Theory of Infectious Cleaning; BSI ... HP_Housekeeping-Manual.pdf Feb 16, 2016 — The Manual is to assist you to develop your own cleaning policies and procedures, or to use as it is if you prefer, and consists of three ... Full Guide To Hospital Housekeeping Checklist - DataMyte's Nov 29, 2022 — A hospital housekeeping checklist is a tool that lists tasks and areas that need to be cleaned in a hospital. It outlines the Frequency, method, ... a study to determine the effectiveness of the texas hospital ... by MEB Blodgett · 1971 — The purpose of this study was to determine the effectiveness of the Texas Hospital Association Shared Management Systems Housekeep- ing Study Guide in ... Environmental Services Cleaning Guidebook Adapted from Allina Hospitals and Clinics Environmental Services Cleaning Guidebook by the Minnesota Hospital Association. (MHA), Minnesota Department of ... Free Hospital Housekeeping Checklists | PDF Jul 11, 2023 — Download our collection of free hospital housekeeping checklists to identify high-risk areas and ensure patient and staff safety. HOSPITAL HOUSEKEEPING In one year, duration, the trainee learns about elementary first-aid, firefighting, environment regulation and housekeeping, etc.