

20. (a) The factors of expression $\omega^3 - 1$ are $\omega - 1$ and $\omega^2 + \omega + 1$. If $\omega^3 - 1 = 0$

(i) Find the possible values of ω and write the real and imaginary roots of ω . (2)

(ii) Prove that: $\begin{vmatrix} 1 & \omega^n & \omega^{2n} \\ \omega^{2n} & 1 & \omega^n \\ \omega^n & \omega^{2n} & 1 \end{vmatrix} = 0$ where n is positive integer. (4)

✓ (i) Part:

Here, $\omega^3 - 1 = 0$

or, $(\omega - 1)(\omega^2 + \omega + 1) = 0$

Either $\omega - 1 = 0 \Rightarrow \omega = 1$

or, $\omega^2 + \omega + 1 = 0 \Rightarrow \omega = \frac{-1 \pm \sqrt{1-4}}{2}$

$$\Rightarrow \omega = \frac{-1 \pm \sqrt{-3}}{2}$$

$$\Rightarrow \omega = \frac{-1 \pm \sqrt{3}i}{2}$$

Hence, the possible values of ω are 1, $\frac{-1 + \sqrt{3}i}{2}$ and $\frac{-1 - \sqrt{3}i}{2}$.

(ii) Part:

$$LHS = \begin{vmatrix} 1 & \omega^n & \omega^{2n} \\ \omega^{2n} & 1 & \omega^n \\ \omega^n & \omega^{2n} & 1 \end{vmatrix}$$

$$= \begin{vmatrix} 1 + \omega^n + \omega^{2n} & \omega^n & \omega^{2n} \\ 1 + \omega^n + \omega^{2n} & 1 & \omega^n \\ 1 + \omega^n + \omega^{2n} & \omega^{2n} & 1 \end{vmatrix}$$

$$C_1 \rightarrow C_1 + C_2 + C_3$$

$$= (1 + \omega^n + \omega^{2n}) \begin{vmatrix} 1 & \omega^n & \omega^{2n} \\ 1 & 1 & \omega^n \\ 1 & \omega^{2n} & 1 \end{vmatrix}$$

Taking $1 + \omega^n + \omega^{2n}$ common from C_1

$$= (1 + \omega^n + \omega^{2n}) \begin{vmatrix} 1 & \omega^n & \omega^{2n} \\ 0 & 1 - \omega^n & \omega^n - \omega^{2n} \\ 0 & \omega^{2n} - \omega^n & 1 - \omega^{2n} \end{vmatrix}$$

$$R_2 \rightarrow R_2 - R_1 \text{ and } R_3 \rightarrow R_3 - R_1$$

$$= (1 + \omega^n + \omega^{2n}) [(1 - \omega^n)(1 - \omega^{2n}) - (\omega^{2n} - \omega^n)(\omega^n - \omega^{2n})]$$

$$= (1 + \omega^n + \omega^{2n}) [1 - \omega^{2n} - \omega^n + \omega^{3n} + (\omega^n - \omega^{2n})^2]$$

$$= (1 + \omega^n + \omega^{2n}) [1 - \omega^{2n} - \omega^n + \omega^{3n} + \omega^{2n} - 2\omega^{3n} + \omega^{4n}]$$

$$= (1 + \omega^n + \omega^{2n})(1 - \omega^n - \omega^{2n} + \omega^{4n})$$

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Table of Contents Solution Of Element Mathematics 11 Class

1. Understanding the eBook Solution Of Element Mathematics 11 Class
 - The Rise of Digital Reading Solution Of Element Mathematics 11 Class
 - Advantages of eBooks Over Traditional Books
2. Identifying Solution Of Element Mathematics 11 Class
 - 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 Solution Of Element Mathematics 11 Class
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Of Element Mathematics 11 Class
 - Personalized Recommendations
 - Solution Of Element Mathematics 11 Class User Reviews and Ratings
 - Solution Of Element Mathematics 11 Class and Bestseller Lists

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 - Solution Of Element Mathematics 11 Class eBook Subscription Services
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 - Solution Of Element Mathematics 11 Class Compatibility with Devices
 - Solution Of Element Mathematics 11 Class Enhanced eBook Features
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 - Adjustable Fonts and Text Sizes of Solution Of Element Mathematics 11 Class
 - Highlighting and Note-Taking Solution Of Element Mathematics 11 Class
 - Interactive Elements Solution Of Element Mathematics 11 Class
8. Staying Engaged with Solution Of Element Mathematics 11 Class
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solution Of Element Mathematics 11 Class
9. Balancing eBooks and Physical Books Solution Of Element Mathematics 11 Class
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solution Of Element Mathematics 11 Class
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Solution Of Element Mathematics 11 Class
 - Setting Reading Goals Solution Of Element Mathematics 11 Class
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Solution Of Element Mathematics 11 Class
 - Fact-Checking eBook Content of Solution Of Element Mathematics 11 Class
 - 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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