

$$\sin x = 0$$

$$\Rightarrow x = n\pi, n \in \mathbb{I}$$

$$\sin 2x = 0$$

$$\Rightarrow 2x = n\pi$$

$$\Rightarrow x = (n\pi/2), n \in \mathbb{I}$$

$$\sin 3x = 0$$

$$\Rightarrow 3x = n\pi$$

$$\Rightarrow x = (n\pi/3), n \in \mathbb{I}$$

$x = n\pi/2$ does not satisfy the given equation.

Hence, the required solution is $x = n\pi$ and $x = n\pi/3$.

OR

In a triangle, ABC, prove that $\sin A + \sin B + \sin C = 4 \cos A/2 \cos B/2 \cos C/2$

Solution:

In any triangle ABC,

$$A + B + C = \pi$$

$$A + B = \pi - C$$

$$(A + B)/2 = (\pi - C)/2$$

$$(A + B)/2 = (\pi/2) - (C/2)$$

$$\text{LHS} = \sin A + \sin B + \sin C$$

$$= 2 \sin [(A + B)/2] \cos [(A - B)/2] + \sin C$$

$$= 2 \sin [(\pi/2) - (C/2)] \cos [(A - B)/2] + 2 \sin (C/2) \cos (C/2)$$

$$= 2 \cos (C/2) \cos [(A - B)/2] + 2 \sin (C/2) \cos (C/2)$$

$$= 2 \cos (C/2) [\cos [(A - B)/2] + \sin (C/2)]$$

$$= 2 \cos \left(\frac{C}{2} \right) \left\{ \cos \left(\frac{A - B}{2} \right) + \sin \left(\frac{\pi - (A + B)}{2} \right) \right\}$$

$$= 2 \cos \left(\frac{C}{2} \right) \left\{ \cos \left(\frac{A - B}{2} \right) + \sin \left(\frac{\pi}{2} - \frac{A + B}{2} \right) \right\}$$

$$= 2 \cos \left(\frac{C}{2} \right) \left\{ \cos \left(\frac{A - B}{2} \right) + \cos \left(\frac{A + B}{2} \right) \right\}$$

$$= 2 \cos \left(\frac{C}{2} \right) \left\{ 2 \cos \left(\frac{\frac{A - B}{2} + \frac{A + B}{2}}{2} \right) \cos \left(\frac{\frac{A - B}{2} - \frac{A + B}{2}}{2} \right) \right\}$$

$$= 2 \cos (C/2) [2 \cos (A/2) \cos (-B/2)]$$

$$= 4 \cos (A/2) \cos (B/2) \cos (C/2)$$

$$= \text{RHS}$$

Hence proved.

Question 4

Prove that: $5^{2n} - 1$ is divisible by 24 for all $n \in \mathbb{N}$.

[4]

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Graham Newman,Ron Bull



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Table of Contents Maths Paper1 Grade11 December

1. Understanding the eBook Maths Paper1 Grade11 December
 - The Rise of Digital Reading Maths Paper1 Grade11 December
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper1 Grade11 December
 - 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 Maths Paper1 Grade11 December
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper1 Grade11 December
 - Personalized Recommendations
 - Maths Paper1 Grade11 December User Reviews and Ratings
 - Maths Paper1 Grade11 December and Bestseller Lists
5. Accessing Maths Paper1 Grade11 December Free and Paid eBooks
 - Maths Paper1 Grade11 December Public Domain eBooks
 - Maths Paper1 Grade11 December eBook Subscription Services
 - Maths Paper1 Grade11 December Budget-Friendly Options
6. Navigating Maths Paper1 Grade11 December eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Paper1 Grade11 December Compatibility with Devices
 - Maths Paper1 Grade11 December Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Paper1 Grade11 December
 - Highlighting and Note-Taking Maths Paper1 Grade11 December
 - Interactive Elements Maths Paper1 Grade11 December
8. Staying Engaged with Maths Paper1 Grade11 December

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Maths Paper1 Grade11 December
- 9. Balancing eBooks and Physical Books Maths Paper1 Grade11 December
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Paper1 Grade11 December
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Paper1 Grade11 December
 - Setting Reading Goals Maths Paper1 Grade11 December
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Paper1 Grade11 December
 - Fact-Checking eBook Content of Maths Paper1 Grade11 December
 - 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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