

 $\sin x = 0$ $\Rightarrow x = n\pi, n \in I$ $\sin 2x = 0$ $\Rightarrow 2x = n\pi$ $\Rightarrow x = (n\pi/2), n \in \mathbb{R}$ $\sin 3x = 0$ \Rightarrow 3x = nm $\Rightarrow x = (n\pi/3), n \in I$ $x = n\pi/2$ 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, $A + B + C = \pi$ $A + B = \pi - C$ $(A + B)/2 = (\pi - C)/2$ $(A + B)/2 = (\pi/2) - (C/2)$ 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)] $= 4 \cos (A/2) \cos (B/2) \cos (C/2)$

= RHS

Hence proved.

Ouestion 4

Prove that: 5²ⁿ - 1 is divisible by 24 for all n ∈ N.

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- 1. Understanding the eBook Grade 11 Paper 1 Mathematics 2014 Pure Maths
 - o The Rise of Digital Reading Grade 11 Paper 1 Mathematics 2014 Pure Maths
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Grade 11 Paper 1 Mathematics 2014 Pure Maths
 - Exploring Different Genres
 - $\circ\,$ Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Grade 11 Paper 1 Mathematics 2014 Pure Maths
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Grade 11 Paper 1 Mathematics 2014 Pure Maths
 - Personalized Recommendations
 - o Grade 11 Paper 1 Mathematics 2014 Pure Maths User Reviews and Ratings
 - Grade 11 Paper 1 Mathematics 2014 Pure Maths and Bestseller Lists
- 5. Accessing Grade 11 Paper 1 Mathematics 2014 Pure Maths Free and Paid eBooks
 - o Grade 11 Paper 1 Mathematics 2014 Pure Maths Public Domain eBooks
 - o Grade 11 Paper 1 Mathematics 2014 Pure Maths eBook Subscription Services
 - Grade 11 Paper 1 Mathematics 2014 Pure Maths Budget-Friendly Options
- 6. Navigating Grade 11 Paper 1 Mathematics 2014 Pure Maths eBook Formats
 - o ePub, PDF, MOBI, and More
 - Grade 11 Paper 1 Mathematics 2014 Pure Maths Compatibility with Devices
 - Grade 11 Paper 1 Mathematics 2014 Pure Maths Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 11 Paper 1 Mathematics 2014 Pure Maths
 - Highlighting and Note-Taking Grade 11 Paper 1 Mathematics 2014 Pure Maths
 - Interactive Elements Grade 11 Paper 1 Mathematics 2014 Pure Maths
- 8. Staying Engaged with Grade 11 Paper 1 Mathematics 2014 Pure Maths

- o Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Grade 11 Paper 1 Mathematics 2014 Pure Maths
- 9. Balancing eBooks and Physical Books Grade 11 Paper 1 Mathematics 2014 Pure Maths
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 11 Paper 1 Mathematics 2014 Pure Maths
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Grade 11 Paper 1 Mathematics 2014 Pure Maths
 - o Setting Reading Goals Grade 11 Paper 1 Mathematics 2014 Pure Maths
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade 11 Paper 1 Mathematics 2014 Pure Maths
 - o Fact-Checking eBook Content of Grade 11 Paper 1 Mathematics 2014 Pure Maths
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - o Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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