

$$\sin x = 0$$

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

$$\sin 2x = 0$$

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

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

$$\sin 3x = 0$$

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

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

$x = n\pi/2$ 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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Camilla Rothe



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Helping Children Learn Mathematics Robert Reys, Mary Lindquist, Diana V. Lambdin, Nancy L. Smith, Anna Rogers, Audrey Cooke, Sue Bennett, Bronwyn Ewing, John West, 2020-01-21 The third edition of Reys Helping Children Learn Mathematics is a practical resource for undergraduate students of primary school teaching Rich in ideas tools and stimulation for lessons during teaching rounds or in the classroom this edition continues to provide a clear understanding of how to navigate the Australian Curriculum with detailed coverage on how to effectively use Information and Communications Technology ICT in the classroom This is a full colour printed textbook with an interactive ebook code included Great self study features include auto graded in situ knowledge check questions video of teachers demonstrating how different maths topics can be taught in the classroom and animated branched chain scenarios are in the e text

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