$\sin x = 0$

$\Rightarrow x = n\pi, n \in I$

$\sin 2x = 0$

$\Rightarrow 2x = n\pi$

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

$\sin 3x = 0$

$\Rightarrow 3x = n\pi$

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

$x = n\pi/2$ 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.

Question 4 [4]

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

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Anne Eadie

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