

 $\sin x = 0$  $\Rightarrow x = n\pi, n \in I$  $\sin 2x = 0$  $\Rightarrow 2x = n\pi$  $\Rightarrow x = (n\pi/2), n \in \mathbb{R}$  $\sin 3x = 0$  $\Rightarrow$  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:  $5^{2n} - 1$  is divisible by 24 for all  $n \in \mathbb{N}$ .

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