

Q: If  $a\left(\frac{1}{b} + \frac{1}{c}\right)$ ,  $b\left(\frac{1}{c} + \frac{1}{a}\right)$ ,  $c\left(\frac{1}{a} + \frac{1}{b}\right)$  are in arithmetic progression (AP), prove that  $a, b, c$  are also in AP.