KVPY-SA 2019 (MATHEMATICS)

$\therefore \quad \dfrac{\text{Area of (C)}}{\text{Area of (T)}} \geq \dfrac{\dfrac{\ell^2}{4\pi}}{\dfrac{\ell^2}{12\sqrt{3}}}$ {C denoted by circle and T denoted by triangle}

$\Rightarrow \quad \dfrac{\text{Area of (C)}}{\text{Area of (T)}} \geq \dfrac{3\sqrt{3}}{\pi}$

Hence for given positive real number α we can choose C and T such that the ratio is greater than α.

15. (b)

Given that

Arithmetic mean = (geometric mean)²

$\Rightarrow \dfrac{b+c}{2} = \left(\sqrt{bc}\right)^2$

$\Rightarrow \dfrac{b+c}{2} = bc$

$\Rightarrow \dfrac{b}{2} + \dfrac{c}{2} - bc = 0$

$\Rightarrow bc - \dfrac{b}{2} - \dfrac{c}{2} + \dfrac{1}{4} = \dfrac{1}{4}$

$\Rightarrow \left(b - \dfrac{1}{2}\right)\left(c - \dfrac{1}{2}\right) = \dfrac{1}{4}$

$\Rightarrow (2b - 1)(2c - 1) = 1$

$\Rightarrow (2b - 1) = 1$ and $(2c - 1) = 1$ or $(2b - 1) = -1$ and $(2c - 1) = -1$

$\Rightarrow b = 1$ and $c = 1$ or $b = 0$ and $c = 0$

$\therefore$ No's can be of form a11 or a00

Where a = 1, 2, 3, ..., 9.

$\therefore$ No. of No's = 9 × 2 = 18

PART-II

16. (c)

Here a and b are roots of the equation $x^2 - 5cx - 6d = 0$

$\therefore$ Sum of roots = a + b = $-\dfrac{-(-5)c}{1} = 5c$ ....(1)

And product of roots = ab = $\dfrac{-6d}{1} = -6d$ ....(2)

Now, c & d are roots of the equation $x^2 - 5ax - 6d = 0$

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