

MATHEMATICS

1. An urn contains 6 black and 9 red balls. Four balls are drawn from the urn twice without replacement. The probability that first four balls are black & 2nd four balls are red in colour is:

(1) $\frac{3}{765}$ (2) $\frac{6}{715}$ (3) $\frac{3}{715}$ (4) $\frac{6}{615}$

Ans. (3)

Sol. $\frac{{}^6C_4}{{}^{15}C_4} \times \frac{{}^9C_4}{{}^{11}C_4} = \frac{3}{715}$

2. A line $x + y = 0$ touches the circle $(x - \alpha)^2 + (y - \beta)^2 = 50$, $\alpha, \beta, > 0$. The distance of origin from its points of contact is $4\sqrt{2}$. Find $\alpha^2 + \beta^2$.

Ans. 82

Sol. Point of contact is $(0 + 4\sqrt{2} \cos 135^\circ, 0 + 4\sqrt{2} \sin 135^\circ) = (-4, 4)$

$$\left| \frac{\alpha + \beta}{\sqrt{2}} \right| = 5\sqrt{2} \quad \alpha + \beta = 10 \dots (i)$$

$$(-4 - \alpha)^2 + (4 - \beta)^2 = 50$$

$$(\alpha + 4)^2 + (4 - 10 + \alpha)^2 = 50$$

$$(\alpha + 4)^2 + (\alpha - 6)^2 = 50$$

$$\alpha = 1, \beta = 9$$

$$\alpha^2 + \beta^2 = 82$$

Also point of contact is $(4, -4)$

Satisfying this point of contact in the equation of circle we get

$$(4 - \alpha)^2 + (-4 - \beta)^2 = 50$$

$$(4 - \alpha)^2 + (\beta + 4)^2 = 50$$

$$(4 - \alpha)^2 + (14 - \alpha)^2 = 50$$

$$\Rightarrow \alpha = 9, \beta = 1$$

$$\alpha^2 + \beta^2 = 82$$

3. Let $2\tan^2 x - 5\sec x - 1 = 0$ has 7 solutions in $x \in \left[0, \frac{n\pi}{2}\right]$, then the minimum value of n is N find

$$\sum_{k=1}^N \frac{k}{2^k}$$

(1) $2 \left(\frac{2^{13} - 1}{2^{13}} \right) - \frac{13}{2^{13}}$

(2) $\left(\frac{2^{13} - 1}{2^{13}} \right) - \frac{13}{2^{13}}$

(3) $2 \left(\frac{2^{13} - 1}{2^{13}} \right) + \frac{13}{2^{14}}$

(4) $2 \left(\frac{2^{13} - 1}{2^{13}} \right) - \frac{13}{2^{14}}$

Ans. (1)

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Hugh Chisholm, James Louis Garvin

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