MATHEMATICS

1. Find the centre and radius of the circle formed by all the points represented by $z = x + iy$ satisfying the relation $\dfrac{|z - \alpha|}{|z - \beta|} = k$ $(k \neq 1)$, where α and β are constant complex numbers given by $\alpha = \alpha_1 + i\alpha_2$, $\beta = \beta_1 + i\beta_2$.

2. If $\vec{a}, \vec{b}, \vec{c}, \vec{d}$ are four distinct vectors satisfying the conditions $\vec{a} \times \vec{b} = \vec{c} \times \vec{d}$ and $\vec{a} \times \vec{c} = \vec{b} \times \vec{d}$, then prove that $\vec{a} \cdot \vec{b} + \vec{c} \cdot \vec{d} \neq \vec{a} \cdot \vec{c} + \vec{b} \cdot \vec{d}$.

3. Using permutation or otherwise prove that $\dfrac{n^2!}{(n!)^n}$ is an integer, where n is a positive integer.

4. If M is a 2×2 matrix, where $M^T M = I$ and $\det(M) = 1$, then prove that $\det(M - I) = 0$.

5. If $y(x) = \displaystyle\int_{\pi^2/16}^{x^2} \dfrac{\cos x . \cos\sqrt{\theta}}{1 + \sin^2\sqrt{\theta}} d\theta$, then find $\dfrac{dy}{dx}$ at $x = \pi$.

6. T is a parallelopiped in which A, B, C and D are vertices of one face. And the face just above it has corresponding vertices A′, B′, C′, D′. T is now compressed to S with face ABCD remaining same and A′, B′, C′, D′ shifted to A″, B″, C″, D″ in S. The volume of parallelopiped S is reduced to 90% of T. Prove that locus of A″ is a plane.

7. If $f : [-1, 1] \to R$ and $f'(0) = \displaystyle\lim_{n \to \infty} n f\left(\dfrac{1}{n}\right)$ and $f(0) = 0$. Find the value of $\displaystyle\lim_{n \to \infty} \dfrac{2}{\pi}(n + 1)\cos^{-1}\left(\dfrac{1}{n}\right) - n$ given

   that $0 < \left| \displaystyle\lim_{n \to \infty} \cos^{-1}\left(\dfrac{1}{n}\right) \right| < \dfrac{\pi}{2}$.

8. If $P(x) = 51x^{101} - 2323x^{100} - 45x + 1035$, using Rolle's theorem, prove that atleast one root lies between $(45^{1/100}, 46)$.

9. A plane is parallel to two lines whose direction ratios are $(1, 0, -1)$ and $(-1, 1, 0)$ and it contains the point $(1, 1, 1)$. If it cuts co-ordinate axis at A,B,C. Then find the volume of the tetrahedron OABC.

10. If A and B are two independent events, prove that $P(A \cup B).P(A' \cap B') \leq P(C)$, where C is an event defined that exactly one of A and B occurs.

11. A curve passes through $(2, 0)$ and the slope of tangent at point $P(x, y)$ equals $\dfrac{(x + 1)^2 + y - 3}{(x + 1)}$. Find the equation of the curve and area enclosed by the curve and the x-axis in the fourth quadrant.

12. A circle touches the line $2x + 3y + 1 = 0$ at the point $(1, -1)$ and is orthogonal to the circle which has the line segment having end points $(0, -1)$ and $(-2, 3)$ as the diameter.

13. At any point P on the parabola $y^2 - 2y - 4x + 5 = 0$ a tangent is drawn which meets the directrix at Q. Find the locus of point R which divides QP externally in the ratio $\dfrac{1}{2} : 1$.

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