

MA: Mathematics

Q.No. 1 The Cauchy problem $yu_x + xu_y = x$ with $u(x, 1) = 2x$, when solved using its characteristic equations with an independent variable t , is found to admit of a solution in the form $x = \frac{3}{2}se^t - \frac{1}{2}se^{-t}$, $y = e^t$, $u = f(s, t)$. Then $f(s, t) =$

- (A) $\frac{3}{2}se^t + \frac{1}{2}se^{-t}$
- (B) $\frac{1}{2}se^t + \frac{3}{2}se^{-t}$
- (C) $\frac{1}{2}se^t - \frac{3}{2}se^{-t}$
- (D) $\frac{3}{2}se^t - \frac{1}{2}se^{-t}$

Answer: (A)

Q.No. 2 Let $X_1, X_2, \dots, X_n (n \geq 2)$ be a random sample from a $N(\theta, \theta)$ population, where $\theta > 0$, and let $W = \frac{1}{n} \sum_{i=1}^n X_i^2$. Then the maximum likelihood of θ is

- (A) $\frac{1}{2} + \frac{1}{2}\sqrt{1 - 4W}$
- (B) $\frac{1}{2} + \frac{1}{2}\sqrt{1 + 4W}$
- (C) $\frac{1}{2} + \frac{1}{2}\sqrt{1 - 4W}$
- (D) $\frac{1}{2} + \frac{1}{2}\sqrt{1 + 4W}$

Answer: (D)

Q.No. 3 For a linear programming problem, which one of the following statements is FALSE?

- (A) If a constraint is an equality, then the corresponding dual variable is unrestricted in sign
- (B) Both primal and its dual can be infeasible
- (C) If primal is unbounded, then its dual is infeasible
- (D) Even if both primal and dual are feasible, the optimal values of the primal and the dual can differ

Answer: (D)

Q.No. 4 Let $f : X \rightarrow Y$ be a continuous map from a Hausdorff topological space X to a metric space Y . Consider the following two statements: P: f is a closed map and the inverse image $f^{-1}(y) = \{x \in X : f(x) = y\}$ is compact for each $y \in Y$. Q: For every compact subset $K \subset Y$, the inverse image $f^{-1}(K)$ is a compact subset of X . Which one of the following is true?

- (A) Q implies P but P does NOT imply Q
- (B) P implies Q but Q does NOT imply P

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