Which of the following is a sufficient condition for $\int\limits_{[a,b]} f\,d\alpha$ to exist ?

(A) f is continuous on [a, b] and α is continuous on [a, b]

(B) f is continuous on [a, b] and α is of bounded variation on [a, b]

(C) f is of bounded variation on [a, b] and α is continuous on [a, b]

(D) f is of bounded variation on [a, b] and α is of bounded variation on [a, b]

12. Which one of the following statements is not true ?

(A) A countable union of countable sets is countable

(B) A set A of all sequences whose elements are the digits 0 and 1 is uncountable

(C) Non empty perfect set in $\mathbb{R}^n$ is countable

(D) The set $\mathbb{Z}^+ \times \mathbb{Z}^+$ is countable

OR

Let N = {1, 2, 3, . . . } and x = {A $\subset$ N : A is finite or A^c is finite} which of the following is not true ?

(A) x is a class of subsets of N

(B) x is a field but not a sigma-field

(C) x is not finite

(D) x is a sigma-field

13. Which one of the following statements is not true ?

(A) If x, y $\in \mathbb{R}$ and x > 0, then there is a positive integer n such that n x > y

(B) Between any two real numbers there exists a rational number

(C) The set $\mathbb{R}$ of real numbers does not have the least upper bound property

(D) For every real x > 0 and every integer n > 0 there is one and only one real y such that $y^n = x$

OR

Which of the following is true for arbitrary non-null n × n matrices A, B, n ≥ 2 ?

(A) Trace (AB − BA) = 0

(B) B = $T^{-1}AT$ with $|T| \neq 0$

(C) (A + B) (A − B) = $A^2 - B^2$

(D) $(A + B)' = A + B$

14. Which one of the following statements is not true ?

(A) Every convergent sequence in $\mathbb{R}$ is bounded

(B) Every bounded sequence in $\mathbb{R}$ contains a convergent subsequence

(C) The set of subsequential limits of a sequence in $\mathbb{R}$ is not closed

(D) A sequence in $\mathbb{R}$ is convergent if and only if it is a Cauchy sequence

OR

If S is the positively oriented circle $|z - 3i| = 2$, what is the value of $\int\limits_s \dfrac{dz}{z^2 + 4}$?

(A) $-\dfrac{\pi}{2}$

(B) $\dfrac{\pi}{2}$

(C) $-i\dfrac{\pi}{2}$

(D) $i\dfrac{\pi}{2}$

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