



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

- (A)  $f$  is continuous on  $[a, b]$  and  $\alpha$  is continuous on  $[a, b]$
- (B)  $f$  is continuous on  $[a, b]$  and  $\alpha$  is of bounded variation on  $[a, b]$
- (C)  $f$  is of bounded variation on  $[a, b]$  and  $\alpha$  is continuous on  $[a, b]$
- (D)  $f$  is of bounded variation on  $[a, b]$  and  $\alpha$  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  $N = \{1, 2, 3, \dots\}$  and  $\mathcal{x} = \{A \subset N : A \text{ is finite or } A^c \text{ is finite}\}$  which of the following is not true ?

- (A)  $\mathcal{x}$  is a class of subsets of  $N$
- (B)  $\mathcal{x}$  is a field but not a sigma-field
- (C)  $\mathcal{x}$  is not finite
- (D)  $\mathcal{x}$  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  $n \times n$  matrices  $A, B, n \geq 2$  ?

- (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  $\int_S \frac{dz}{z^2 + 4}$  ?

- (A)  $-\frac{\pi}{2}$
- (B)  $\frac{\pi}{2}$
- (C)  $-i\frac{\pi}{2}$
- (D)  $i\frac{\pi}{2}$

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