



Mathematical Analysis.d

- 1 If A and B are sets and $A \cup B = A \cap B$, then...
- 2 If X and Y are two sets, then $X \cap (Y \cup X)$ equals ...
- 3 Which of the following sets are null sets?
- 4 In a contest, half the number of experts voted for Mr. A and two thirds voted for Mr. B. 10 voted for both and 6 did not vote for either. How many experts were there in all?
- 5 A ... is an ordered collection of objects.
- 6 Power set of the empty set has exactly ... subset.
- 7 The set of positive integers is ...
- 8 The members of the set $S = \{x \mid x \text{ is the square of an integer and } x < 100\}$ is ...
- 9 What is the cardinality of the set of odd positive integers less than 10?
- 10 If $A = \{ \text{Sami, John, Green, Joe, Adam} \}$ then $n(A) = \dots$
- 11 Which of the following two sets are equal?
- 12 Let $B = \{1, 2\}$ then $P(B) = \dots$
- 13 If $A = \{1, 2, 3, 4\}$ and $B = \{4, 5, 6, 7\}$ then $A \cup B$ should be ...
- 14 If $A = \{2, 3, 4, 5, 6\}$ and $B = \{4, 5, 6, 7\}$ then $A \cap B$ should be
- 15 If $X = \{1, 2, 3, 4, 5\}$ and $Y = \{2, 4, 5, 6, 9\}$ then $Y - X$ equals to
- 16 If 2 sets A and B are given, then the set consisting of all the elements which are either in A or in B or in both is called
- 17 Order of the power set of a set of order n is ...
- 18 Number of subsets of a set of order three is





- 19) Let $A = \{1,2\}$; $B = \{a,b\}$, so $A \times B = \dots$
- 20) If $E = \{1, 2, 3\}$ and $F = \{3, 2, 1\}$, then the two sets are ...
- 21) The product of a rational and irrational number is ...
- 22) If A is a countable set, and B is an uncountable set, then the most we can say about $(A \cup B)$ is that it is . . .
- 23) If A is a finite set, and B is a finite set, then the most we can say about $(A \cap B)$ is that it is
- 24) If $b = 3$, then any integer can be expressed as $a =$
- 25) Which number is divisible by 11?
- 26) The least number that is divisible by all the numbers from 1 to 5 (both inclusive) is ...
- 27) When a number is divided by 7, its remainder is always:
- 28) For some integer p , every even integer is of the form
- 29) $m^2 - 1$ is divisible by 8, if m is
- 30) For some integer p , every odd integer is of the form
- 31) Let the sequence be 1, 3, 5, 7, 9 ... then this sequence is ...
- 32) In the given AP series find the number of terms 5, 8, 11, 14, 17, 20 ... 50.
- 33) In the given AP series the term at position 11 would be? 5, 8, 11, 14, 17, 20 ... 50.
- 34) Which of the following sequences in AP will have common difference 3, where n is an Integer?
- 35) Let the sum of the 3 consecutive terms in AP be 180 then middle of those 3 terms would be ...
- 36) If in an A.P., first term is 20 and 12th term is 120. Find the sum up to 12th term.
- 37) If an A.P. is 1,7,13, 19 ... Find the sum of 22 terms.





- 38) If sum of n terms of an A.P. is $n^2 + 5n$ then find general term.
- 39) If 3rd term of an A.P. is 6 and 5th term of that A.P. is 12. Then find the 21st term of that A.P.
- 40) If an A.P. is 3, 5, 7, 9 ... Find the 12th term of the A.P.
- 41) ... It is the most important series we will encounter
- 42) Find the sum of first n terms.
- 43) Find the sum $1^2 + 2^2 + 3^2 + \dots + 10^2$.
- 44) Find the sum $1^3 + 2^3 + 3^3 + \dots + 8^3$.
- 45) Find the sum of series up to 6th term whose n th term is given by $n^2 + 3^n$.
- 46) Find the sum up to 7th term of series $2 + 3 + 5 + 8 + 12 + \dots$
- 47) Find the sum of series $6^2 + 7^2 + \dots + 15^2$.
- 48) Find the sum of series $6^3 + 7^3 + \dots + 20^3$.
- 49) Find the sum of series $1^3 + 3^3 + 5^3 + \dots + 11^3$.
- 50) Find the sum of series $1^2 + 3^2 + 5^2 + \dots + 11^2$.
- 51) A sequence converges when it keeps getting ... to a certain value
- 52) The terms of $1/n$ are: 1, $1/2$, $1/3$, $1/4$, $1/5$ and so on, And that sequence converges to ...
- 53) If X and Y are two systems satisfying the axioms for the real numbers, then X and Y are isomorphic. This theorem is the ...
- 54) In mathematics, a ... is a value of a continuous quantity that can represent a distance along a line
- 55) ... theorem is a fundamental result about convergence in a finite-dimensional Euclidean space R_n . The theorem states that each bounded sequence in R_n has a convergent subsequence.react
- 56) A sequence is called a ... sequence if the terms of the sequence eventually all become arbitrarily close to one another.react





- 57) ... are essential to calculus and mathematical analysis, and are used to define continuity, derivatives, and integrals.
- 58) ... invented the real numbers
- 59) ... is the smallest data value that can go into the class.
- 60) What is the upper class limit of the class 45-50?
- 61) Propositional logic uses symbols to stand for statements and...
- 62) It is impossible for a valid argument to have true premises and...
- 63) If $-7 > a$ and $a > b$ then -7 is
- 64) By solving the inequality $6x - 7 > 5$, the answer will be
- 65) ...is formed by the study of vector spaces endowed with some kind of limit-related structure algorithm
- 66) Contrary propositions cannot both be ...
- 67) Which of the following option is true?
- 68) What is the value of x after this statement, assuming the initial value of x is 5? 'If x equals to one then $x=x+2$ else $x=0$ '.
- 69) Let P : I am in Bangalore.; Q : I love cricket.; then $q \rightarrow p$ (q implies p) is?
- 70) Let P : This is a great website, Q : You should not come back here. Then 'This is a great website and you should come back here.' is best represented by?

