

Video Lectures

- 01 Set, construction methods, set types, set cardinality
- 02 Set Construction methods | Roster | Description
- 03 Operations with sets | Union | Intersection | Difference | Complement
- 04 Binary Operations
- 05 Relation
- 06 Symmetric relation
- 07 Asymmetric relation
- 08 Anti-symmetric relation
- 09 Inverse relation
- 10 Identity Relation
- 11 Reflexive relation
- 12 Irreflexive relation

13 Equivalence relation

14 Transitive relation

15 Numerical problem on Relation

16 $(A \wedge B) \times (C \wedge D) = (A \times C) \wedge (B \times D)$ | Relation example

17 Pigeonhole Principal

18 Mathematical Induction

19 Mathematical Induction | Prove $2+4+6+\dots+2n=n(n+1)$

20 Mathematical Induction | Sum of cubes of three Consecutive integers is divisible by 9

21 Algebraic structure

22 Group, Abelian Group, Sub Group

23 Prove set $G = \{1, 2, 3, 4, 5, 6\}$ is abelian group of order 6, multiplication modulo 7

24 Prove set $G = \{0, 1, 2, 3, 4, 5\}$ is abelian group of order 6, addition modulo 6

25 Monoid in Algebraic structure

26 Semigroup

27 Numerical problem on Semi Group

28 Group

29 Cyclic Group

30 Coset of Subgroup

31 Abelian group

32 Numerical problem on Group

33 Isomorphic Graph

34 Ring

35 Prove that a ring R is commutative, if and only if $(a+b)^2 = a^2 + 2ab + b^2$

36 Obtain particular solution $ar + 5ar-1 + 6ar-2 = 3r^2 - 2r + 1$

37 Proposition | Basic Logical | Conjunction | Disjunction | Negation

38 Quantifiers

39 CNF: Conjunctive Normal Form

40 Inclusion Exclusion Principal

41 Inclusion Exclusion Principal example 01

42 POSET

43 Hasse Diagram D60

44 Lattice

45 Ordered Pair

46 Recurrence Relation | Example 01

47 Recurrence relation | Example 02

48 Recurrence relation | Example 03

49 Generating function | Example 01

50 Generating function | Example 02

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- 68. There are five bags each containing identical sets of ten distinct chocolates. One chocolate is picked from each bag. The probability that at least two chocolates are identical is _____
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