

Discrete Math Topic +Online Lessons from (Chapter 6)->(Chapter11)

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• Chapter 6_The Basics of Counting

- The Product Rule (<https://www.youtube.com/watch?v=3H6ET7P902Q>)
- The Sum Rule (https://www.youtube.com/watch?v=MmzJF2L_5PA&t=313s)
- The Subtraction Rule
- The Division Rule (https://www.youtube.com/watch?v=pSS7_pjLnYU)
- Tree Diagrams (<https://www.youtube.com/watch?v=IBsjkXkAYS4>)

• Chapter8_Advanced Counting Techniques

- Applications of Recurrence Relations (<https://www.youtube.com/watch?v=VD6MNGSNKeA>)
- Solving Linear Recurrence Relations (<https://www.youtube.com/watch?v=aHw7hAAjbD0>)
 - Homogeneous Recurrence Relations
 - Nonhomogeneous Recurrence Relations
- Divide-and-Conquer Algorithms and Recurrence Relations (https://www.youtube.com/watch?v=6SUmp_Cn-SU)

• Chapter9_Relations

- Relations and Their Properties (<https://www.youtube.com/watch?v=FI6j5QZNVx0>)
- Representing Relations (<https://www.youtube.com/watch?v=r-EvSkZ6eMY>)
- Equivalence Relations (<https://www.youtube.com/watch?v=Wrm1QO6Nc-4>)
- Partial Orderings(<https://www.youtube.com/watch?v=R36F8CWAi2k>)

• Chapter10_Graphs

- Graphs and Graph Models (<https://www.youtube.com/watch?v=JXE2ntFqQ1Q>)
- Graph Terminology and Special Types of Graphs (<https://www.youtube.com/watch?v=Aof1weWtwMo>)
- Representing Graphs and Graph Isomorphism (<https://www.youtube.com/watch?v=pJwY7zIJ2Oo>)

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- Connectivity (<https://www.youtube.com/watch?v=MGf9ZYS2D-o>)
- Euler and Hamiltonian Graphs (<https://www.youtube.com/watch?v=AwsMTEI79wl>)

• Chapter11_ Trees

- Introduction to Trees (<https://www.youtube.com/watch?v=zEQZpTizgLo>)
- Tree Traversal (https://www.youtube.com/watch?v=z_OwSnFY_5s)
- Spanning Trees (<https://www.youtube.com/watch?v=TzLswrllE7E>)