NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Mathematics - NOC: Calculus for Economics, Commerce and Management Subject Co-ordinator - Prof.Inder Kumar Rana Co-ordinating Institute - IIT - Bombay Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable Lecture 1 - Introduction to the Course Lecture 2 - Concept of a Set, Ways of Representing Sets Lecture 3 - Venn Diagrams, Operations on Sets Lecture 4 - Operations on Sets, Cardinal Number, Real Numbers Lecture 5 - Real Numbers, Sequences Lecture 6 - Sequences, Convergent Sequences, Bounded Sequences Lecture 7 - Limit Theorems, Sandwich Theorem, Monotone Sequences, Completeness of Real Numbers Lecture 8 - Relations and Functions Lecture 9 - Functions, Graph of a Functions, Function Formulas Lecture 10 - Function Formulas, Linear Models Lecture 11 - Linear Models, Elasticity, Linear Functions, Nonlinear Models, Quadratic Functions Lecture 12 - Quadratic Functions, Quadratic Models, Power Function, Exponential Function Lecture 13 - Exponential Function, Exponential Models, Logarithmic Function Lecture 14 - Limit of a Function at a Point, Continuous Functions Lecture 15 - Limit of a Function at a Point Lecture 16 - Limit of a Function at a Point, Left and Right Limits Lecture 17 - Computing Limits, Continuous Functions Lecture 18 - Applications of Continuous Functions Lecture 19 - Applications of Continuous Functions, Marginal of a Function Lecture 20 - Rate of Change, Differentiation Lecture 21 - Rules of Differentiation Lecture 22 - Derivatives of Some Functions, Marginal, Elasticity Lecture 23 - Elasticity, Increasing and Decreasing Functions, Optimization, Mean Value Theorem Lecture 24 - Mean Value Theorem, Marginal Analysis, Local Maxima and Minima Lecture 25 - Local Maxima and Minima Lecture 26 - Local Maxima and Minima, Continuity Test, First Derivative Test, Successive Differentiation Lecture 27 - Successive Differentiation, Second Derivative Test Lecture 28 - Average and Marginal Product, Marginal of Revenue and Cost, Absolute Maximum and Minimum Lecture 29 - Absolute Maximum and Minimum

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- Lecture 30 Monopoly Market, Revenue and Elasticity
- Lecture 31 Property of Marginals, Monopoly Market, Publisher v/s Author Problem
- Lecture 32 Convex and Concave Functions
- Lecture 33 Derivative Tests for Convexity, Concavity and Points of Inflection, Higher Order Derivative Conc
- Lecture 34 Convex and Concave Functions, Asymptotes
- Lecture 35 Asymptotes, Curve Sketching
- Lecture 36 Functions of Two Variables, Visualizing Graph, Level Curves, Contour Lines
- Lecture 37 Partial Derivatives and Application to Marginal Analysis
- Lecture 38 Marginals in Cobb-Douglas model, partial derivatives and elasticity, chain rules
- Lecture 39 Chain Rules, Higher Order Partial Derivatives, Local Maxima and Minima, Critical Points
- Lecture 40 Saddle Points, Derivative Tests, Absolute Maxima and Minima
- Lecture 41 Some Examples, Constrained Maxima and Minima

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