

Mathematics Films of Norman N. Royall, Jr.

Each film is 30 min.

College Algebra Series

- A1 Historical Introduction to Algebra
- A2 Five Fundamental Postulates of Algebra (part 1)
- A3 Five Fundamental Postulates of Algebra (part 2)
- A4 Introduction to Factoring
- A5 Standard Techniques of Factoring
- A6 Linear Equations in One Unknown
- A7 Introduction to Simultaneous Equations
- A8 Determinants and Cramer's Rule
- A9 Determinants of Any Order
- A10 Introduction to Quadratic Equations
- A11 Solving Problems with the Quadratic Formula
- A12 Complex Numbers and Roots of Equations
- A13 Introduction to Graphs of Equations
- A14 Graphs of Quadratic Equations
- A15 Theory of Equations and Synthetic Division
- A16 Solutions of Equations Beyond the Second Degree
- A17 Permutations and Combinations
- A18 Nature of Logarithms
- A19 Using Logarithms in Problems
- A20 Computing Logarithms from Arithmetic and Geometric Series

Trigonometry Series

- T1 Trigonometry and Shadows
- T2 Right Triangles and Trigonometric Ratios
- T3 Using, Sines, Cosines and Tangents
- T4 Trigonometry Measures the Earth
- T5 Cosecant, Secant and Cotangent
- T6 Eight Fundamental Trigonometric Identities
- T7 Working with Trigonometric Identities
- T8 Tables of Trigonometric Ratios
- T9 Interpolation in Trigonometric Tables
- T10 Introduction to Logarithms
- T11 Practical Use of Logarithms
- T12 Using Logarithms Tables
- T13 Large Angles and Co-ordinate Axes
- T14 Trigonometry of Large Angles

- T15 Law of Sines
- T16 Law of Cosines
- T17 Law of Tangents
- T18 Trigonometric Ratios as Periodic Functions
- T19 Graphs of Periodic Functions
- T20 Addition Formulas and DeMoivre's Theorem
- T21 Double and Half Angle Formulas

Slide Rule Series

- SLR1 Logarithms and the Slide Rule I
 - SLR2 Logarithms and the Slide Rule II
 - SLR3 Logarithms and the Slide Rule III
 - SLR4 Logarithms and the Slide Rule IV
 - SLR5 Logarithms and the Slide Rule V
 - SLR6 Logarithms and the Slide Rule VI
 - SLR7 Logarithms and the Slide Rule VII
 - SLR8 Logarithms and the Slide Rule VIII
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