Mastering Calculus and Differential Equations with Wolfram Alpha and a SupraComupter

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Lessons will be completed on a provided SupraComputer.

Lesson #1: Introduction (15 minutes)

Lesson #2: Graphing Functions with Wolfram Alpha (15 minutes)

Lesson #3: Roots & Stationary Points (15 minutes)

Lesson #4: Inflection Points of a Function (14 minutes)

Lesson #5: Asymptotes of Functions (15 minutes)

Lesson #6: Implicit Functions (15 minutes)

Lesson #7: Series (15 minutes)

Lesson #8: Derivatives & Anti-Derivatives (15 minutes)

Lesson #9: Integrals (15 minutes)

Lesson #10: Length of Curves (15 minutes)

Lesson #11: Solids of Revolution (15 minutes)

Lesson #12: Differential Equations-First Order Linear (15 minutes)

Lesson #13: Differential Equations-Second Order Linear (17 minutes)

Lesson #14: Differential Equations-Nonlinear (16 minutes)

Lesson #15: Linear Algebra (15 minutes)

SupraComputer Math-Lesson #1: Introduction to Mathematica Tools (9 minutes)

SupraComputer Math-Lesson #2: Wolfram Language and Wolfram Alpha Comparison (16 minutes)

SupraComputer Math-Lesson #3: Differential Calculus (12 minutes)

SupraComputer Math-Lesson #4: Integral Calculus (22 minutes)

SupraComputer Math-Lesson #5: Functions and Wolfram Language vs. Wolfram Alpha (22 minutes)

SupraComputer Math-Lesson #6: Classical Calculus (18 minutes)

Wolfram Language-Lesson #1: Introduction (11 minutes)

Wolfram Language-Lesson #2: Lists (14 minutes)