SUMMER MATH BOOT CAMPS
Algebra I, Algebra II, Geometry, Precalculus & Trigonometry, and Calculus

ADVANTAGE TESTING
of Boston

Advantage Testing of Boston is thrilled to offer **week-long math boot camps** for students looking to strengthen foundations, prepare for advanced/honors classes, and build confidence in their mathematical skills. Our courses cover the core material of **Algebra I**, **Algebra II**, **Geometry**, **Precalculus & Trigonometry**, and **Calculus** emphasizing problem-solving skills and rigorous treatments of new concepts. Small group classes plus additional one-on-one instruction ensure that every student gets the practice and support they need.

Session 1: June 26–30	**Session 2**: August 14–18 **Session 3**: August 21–25		
• Algebra I • Algebra II	• Algebra I • Algebra II	• Geometry • Precalculus & Trigonometry	• Calculus

Classes will meet **Monday–Friday** on Zoom for 1.5 hours each day, for a total of 7.5 hours of group instruction. Additionally, each student will have a chance to meet privately with the instructor to clear up difficulties, ask questions, and/or preview bonus topics. Each week-long session costs $395. Interested students are invited to take an optional diagnostic test for placement.

INSTRUCTORS

Jacob Shulman

Jacob graduated with an A.B., *summa cum laude*, from Princeton University, where he also earned an Isidore and Helen Sacks Memorial Prize. Jacob then went on to complete an M.M. in Music Composition from the New England Conservatory. An avid musician, he plays saxophone, clarinet, Armenian duduk, and piano, and he has toured the USA, Japan, Armenia, and Italy as a jazz musician. Jacob programs music for Nintendo GameBoy and recently finished writing a video game opera. He also loves to cook.

Danny earned a B.A., *magna cum laude*, from Middlebury College in Mathematics and Physics. He then graduated with a Ph.D. in Physics from University of Wisconsin-Madison, where he also received a Capstone Ph.D. Award, Dissertation Completion Fellowship, and Chancellor's Fellowship. Originally from Atlanta, Danny lived in Shanghai while doing a postdoc. He also enjoys playing basketball and poker.
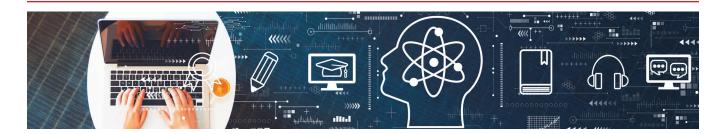

Danny Crow

ENROLL NOW TO GUARANTEE A SPOT!
https://forms.gle/Q27GpiFTkvCoQhwy7
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COURSES

ALGEBRA I

- Design, manipulate, and interpret algebraic expressions
- Solve systems of equations and inequalities
- Solve word problem and model real-world scenarios
- Graph linear, quadratic, and exponential functions

ALGEBRA II

- Learn strategies for solving quadratic equations
- Manipulate, factor, and graph polynomials
- Study complex numbers, roots, and logarithms
- Preview applications to physics, finance, and data analysis

GEOMETRY

- Study properties of geometrical figures, emphasizing drawing
- Discover and prove theorems from the postulates
- Write clear, logical proofs of geometrical propositions
- Connect geometry and algebra via real-world applications

PRECALCULUS & TRIGONOMETRY

- Master the basics of trigonometry: trig functions and their inverses, the unit circle, graphs of waves
- Extend algebra techniques to handle more complex functions and graphs
- Investigate connections between algebra and geometry: conic sections and complex numbers
- Prepare for calculus through an introduction to limits and continuity

CALCULUS

- Lay the foundation for a standard AP Calculus AB course
- Encounter the three big ideas of calculus: limits, derivatives, and integrals
- Build fundamental problem-solving skills and investigate their theoretical underpinnings
- Solve real-world problems in physics, biology, and economics