

Jesuit High School 2021 Online Winter Session Math Courses

#097 Solving for X: Probability and Percents

\$205 (\$180 by December 29)

Saturdays 9:00 am - 10:25 am

January 9 - March 20 (11 classes)

Description: Students build on their knowledge of fractions and decimals. They will learn about probability and percents and apply their knowledge to solve a wide variety of challenging problems. Students will make connections between these concepts and applications in science and everyday life. By developing a stronger intuitive understanding of probability and percents, students will be positioned to succeed in their regular math and science classes and prepare themselves for advanced coursework.

Prerequisites: A solid understanding of fractions and decimals and the ability to perform operations on fractions and decimals.

#117 Problem Solving with Algebra: Variables, Expressions, & Equations

\$265 (\$240 by December 29)

Saturdays 10 am - 11:55 am

January 9 - March 20 (11 classes)

Description: Students in this class will develop a foundation of basic algebra skills that will be instrumental in mastering algebra. Students will discuss and build skills involving order of operations, distribution, factoring, equations, exponents, radicals, expressions, fractions with variables, solving linear equations, and evaluating multi-variable expressions.

Prerequisite: This class is for pre-algebra students who would like to begin algebra, and for algebra students who would like a stronger foundation of basic algebra skills.

#122 Problem Solving with Algebra: Quadratics and Factoring

\$265 (\$240 by December 29)

Saturdays 10 am - 11:55 am

January 9 - March 20 (11 classes)

Description: Students in this class will apply basic algebra skills to challenging algebra concepts. Students will discuss and build skills involving a variety of topics related to quadratics and factoring. Topics of study include: FOIL, factoring quadratics, roots, squares of binomials, the difference of squares, imaginary numbers, complex numbers, completing the square, the quadratic formula, parabolas, and circles.

Prerequisite: This class is for students who are currently enrolled in an algebra 1 class and can apply basic algebraic concepts such as order of operations, recognize properties such as the distributive property, and correctly manipulate variables.

#139 Geometry Part 2

\$265 (\$240 by December 29)

Saturdays 1:00 pm - 2:55 pm

January 9 - March 20 (11 classes)

Description: Students study similarity, right triangles and trigonometry, quadrilaterals, circles, length, and area.

Prerequisite: The ability to apply basic geometric principles involving parallel and perpendicular lines, congruent triangles, and relationships within triangles.

#145 AMC 10 Seminar: Geometry

\$265 (\$240 by December 29)

Saturdays 10:30 am - 12:25 pm

January 9 - March 20 (11 classes)

Description: Students reinforce geometry skills by learning techniques to creatively solve interesting problems involving geometric principles. Students will solve a variety of competition style problems, with a particular emphasis on geometry.

Whether or not a student plans to compete in math competitions, solving AMC exam questions builds problem solving skills, logic, creativity, and patience. Collaboration and

the growth mindset are encouraged throughout the course as essential tools for successful mathematical problem solving.

Prerequisite: Algebra and familiarity with basic concepts of geometry.

Jesuit High School 2021 Winter Session FAQ

Will I receive credit for Winter Session courses?

Winter Session courses are not for credit.

How will I access my course?

Students access Winter Session courses through Canvas, the classroom management software system that Jesuit uses. Students will receive an email with instructions for logging into their course through Canvas. The course's Canvas page will include a Zoom link for the course's class meetings.

What materials will I need?

Course materials will be accessed online through Canvas.

If I complete Winter Session *Geometry, Part 2*, and later attend Jesuit, would I still need to take Geometry in high school?

Winter Session *Geometry, Part 2* does not fulfill Jesuit's geometry requirement. Jesuit students can satisfy their geometry requirement by passing Jesuit's Geometry Challenge Exam in the spring before their freshman year. Geometry Part 1 and Geometry Part 2 together cover the material that is included on the exam and can be used to assist in preparing for the Geometry Challenge Exam.

What if I have a question to ask about my class?

Before the class begins you will receive an email address to contact your instructor.