Geometry, Part 2

ATTENTION

Grading at the end of this semester can take 7 school days!
Submit your **last assignment two weeks** before your school's semester ends.

The 3rd postquadratic for 10th (overall ab. regards) - Land Geometry, Part 1

How to Take This Course

Each unit includes guided notes that align with the lesson videos. The lesson quizzes, unit tests, and final exam are all based on the content covered in these videos. Most lessons also include links to optional resources or practice assignments. You're encouraged to explore these additional materials if you'd like extra support or more practice on specific topics.

Complete all the lessons and pass the assignment in each unit. Once the quizzes for a unit are complete, you will have access to the unit test. We recommend you complete the unit assignment before you attempt the unit test, the assignment will help you prepare. You will have access to the lesson videos and notes for the unit even after the course for at least 30 days, all unit tests are completed, and your assignments are graded.

Have a 5-minute days for an assignment to be graded. To understand the course grading, read the full course instructions.

- Course Instructions
- How This Course Works & Suggested Timeline
- Submitting Your Assignments
- Ask the Teacher

Meet your teacher for this course and ask a question.

Need help with the course? We offer online tutoring. Find more details about it here.

- MANDATORY QUIZ — Completed
- Lesson Guidelines

Lesson Guidelines

These guided notes correspond to the instructional videos. You may use them on the quizzes, unit tests, and course final.

As you work through the lessons, you are encouraged to work through the practice problem set, and check your answers against the key.

- 1.1 Pythagorean Theorem and its Converse — Completed
- Quiz 1.1
- 1.2 Special Right Triangles — Completed
- Quiz 1.2
- 1.3 Basic Trigonometric Functions — Completed
- Quiz 1.3
- 1.4 Angles of Elevation and Depression — Completed
- Quiz 1.4
- 1.5 Area of a Triangle — Completed
- Quiz 1.5
- 1.6 Law of Sines and Law of Cosines — Completed
- Quiz 1.6
- Unit 1 Assignment: Trigonometry — Completed
- Unit 1 Test

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Unit 2: Polygons and Quadrilaterals

In this unit, you will:

- Classify polygons and apply properties of interior and exterior angles in regular and irregular polygons.
- Identify and use properties of special quadrilaterals, including parallelograms, rectangles, rhombuses, squares, trapezoids, and kites.
- Use coordinate geometry to verify and classify quadrilaterals on the coordinate plane using slope, distance, and midpoint formulas.
- Solve problems involving midsegments, angles, and sides in trapezoids and kites.
- Construct regular polygons using a compass and straightedge.

Unit 2 Guided Notes

These guided notes correspond to the instructional videos. You may use them on the unit quizzes, unit tests, and course final.

As you work through the lessons, you are encouraged to work through the practice problem set, and check your answers against the key.

- 2.1 Classifying Polygons — Completed
- Quiz 2.1
- 2.2 Polygon Theorems — Completed
- Quiz 2.2
- 2.3 Parallelograms — Completed
- Quiz 2.3
- 2.4 Rectangles, Rhombuses, and Squares — Completed
- Quiz 2.4
- 2.5 Trapezoids and Kites — Completed
- Quiz 2.5
- 2.6 Quadrilaterals on a Coordinate Plane — Completed
- Quiz 2.6
- 2.7 Constructing Regular Polygons — Completed
- Quiz 2.7
- Unit 2 Assignment: Quadrilaterals & Polygons — Completed
- Unit 2 Test

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Unit 3: Circles

In this unit, you will:

- Identify and use properties of circles, including central angles, arcs, chords, tangents, and secants.
- Apply theorems on inscribed angles, tangent lines, and intersecting lines to solve problems.
- Calculate circumference, arc length, and sector area of circles, both in standard form and on the coordinate plane.
- Write and graph equations of circles and prove relationships between circles using algebraic and geometric reasoning.
- Explore basic features and equations of conic sections, including ellipses, parabolas, and hyperbolas.

Unit 3 Guided Notes

These guided notes correspond to the instructional videos. You may use them on the unit quizzes, unit tests, and course final.

As you work through the lessons, you are encouraged to work through the practice problem set, and check your answers against the key.

- 3.1 Central Angles, Chords, and Arcs — Completed
- Quiz 3.1
- 3.2 Inscribed Angles and Inscribed Polygons — Completed
- Quiz 3.2
- 3.3 Tangent Lines and Circumscribed Polygons — Completed
- Quiz 3.3
- 3.4 Chords, Secants, and Tangents — Completed
- Quiz 3.4
- 3.5 Area and Circumference of a Circle — Completed
- Quiz 3.5
- 3.6 Arc Length and Areas of Circle Sectors and Segments — Completed
- Quiz 3.6
- 3.7 Equations of Circles — Completed
- Quiz 3.7
- 3.8 Introduction to Conic Sections — Completed
- Quiz 3.8
- Unit 3 Assignment: Circle Portfolio — Completed
- Unit 3 Test

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Unit 4: Solids

In this unit, you will:

- Calculate the area and perimeter of 2D polygons and composite figures, including shaded regions.
- Identify and classify three-dimensional solids, their nets, and cross sections.
- Use formulas to calculate surface area and volume of prisms, cylinders, pyramids, and cones.
- Find volumes of composite solids and apply Cavalieri's Principle to calculate their surface area and volume.
- Analyze the effects of scale factor on area, surface area, and volume in similar solids.

Unit 4 Guided Notes

These guided notes correspond to the instructional videos. You may use them on the unit quizzes, unit tests, and course final.

As you work through the lessons, you are encouraged to work through the practice problem set, and check your answers against the key.

- 4.1 Area and Perimeter of Polygons — Completed
- Quiz 4.1
- 4.2 Solids, Nets, and Cross Sections — Completed
- Quiz 4.2
- 4.3 Surface Area of Prisms and Cylinders — Completed
- Quiz 4.3
- 4.4 Surface Area of Pyramids and Cones — Completed
- Quiz 4.4
- 4.5 Volume of Prisms and Cylinders — Completed
- Quiz 4.5
- 4.6 Volume of Pyramids and Cones — Completed
- Quiz 4.6
- 4.7 Surface Area and Volume of Spheres — Completed
- Quiz 4.7
- 4.8 Composite Solids — Completed
- Quiz 4.8
- 4.9 Similar Solids and Effects of Changing Dimensions — Completed
- Quiz 4.9
- Unit 4 Assignment: The Cereal Box — Completed
- Unit 4 Test

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Unit 5: Probability

In this unit, you will:

- Explore sample spaces, set notation, and Venn diagrams to represent and calculate probabilities.
- Compare theoretical and experimental probability, and use probability to predict outcomes.
- Apply the addition and multiplication rules to both independent and dependent events.
- Analyze two-way frequency tables and calculate conditional probabilities.
- Use permutations, combinations, and geometric probability to solve advanced probability problems.

Unit 5 Guided Notes

These guided notes correspond to the instructional videos. You may use them on the unit quizzes, unit tests, and course final.

As you work through the lessons, you are encouraged to work through the practice problem set, and check your answers against the key.

- 5.1 Sample Spaces — Completed
- Quiz 5.1
- 5.2 Probability and Counting — Completed
- Quiz 5.2
- 5.3 Geometric Probability — Completed
- Quiz 5.3
- 5.4 Two-Way Frequency Tables — Completed
- Quiz 5.4
- 5.5 Probability and the Addition Rule — Completed
- Quiz 5.5
- 5.6 Probability and the Multiplication Rule — Completed
- Quiz 5.6
- 5.7 Conditional Probability — Completed
- Quiz 5.7
- 5.8 Probability with Permutations and Combinations — Completed
- Quiz 5.8
- Unit 5 Assignment: Probability — Completed
- Unit 5 Test

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Final Exam

You will have access to the final after you have been enrolled in the course for at least 30 days and when all unit tests are completed. Get your assignments in order.

Warning: You have only ONE attempt at the final. Are you ready to take the final? We highly recommend you take the practice final first, and if you are weak in any area, review the relevant course material again. You have unlimited attempts at the practice final & will help you to prepare.

Remember, if you want to improve your grade in this course, you need to do this BEFORE you take the final exam.

Good Luck!

Not available unless: The activity MANDATORY QUIZ is marked complete

Course Completion & Requesting a Transcript

Warning: If you are waiting for a requested assignment to be graded, do NOT generate any course completion record until the teacher has graded it.

Transcript: Send a transcript to your school to report the credits you earned. A transcript will list all the courses you have taken with us, including those still in progress.

Course Certificate: This link cannot be accessed until you have completed the final. Upon satisfying this requirement, the link will become active.

Feedback: Before you go, we would appreciate your opinion on the course, please take 1 minute to complete the feedback form. We hope you enjoyed because:

- Course Feedback

Thank you for taking this course! Let us know when you think about it.

- Request a Transcript

Notify your school that you have completed your course. Send them a transcript by email or mail. A transcript will list all the courses you have completed and those in progress.

- Certificate of Completion

Not available unless: The activity Final Exam is marked complete