

Geogebra

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Math Teaching Department

What is Geogebra

GeoGebra

Resources ▾

Calculators ▾

Search

Join Lesson



GeoGebra tools and resources

Teach and learn math in a smarter way

GeoGebra is more than a set of free tools to do math. It's a platform to connect enthusiastic teachers and students and offer them a new way to explore and learn about math.

Start Calculator

Math Resources



Recommended math resources

GeoGebra-curated for Grades 4 to 12

Number Sense

Operations

Algebra

Measurement

Geometry

Probability and Statistics

What we offer



Math Resources

Our newest collection of GeoGebra Math Resources has been meticulously crafted by our expert team for Grades 4 to 12.



Math Calculators & Apps

Free tools for an interactive learning and exam experience. Available on all platforms.



Classroom Collaboration

Interactive math lessons with GeoGebra materials available. Integration with various LMSs supported.



Math Solver

Take a photo of your math homework. Get step-by-step solutions with explanations and practice similar problems.

- Interactive mathematics software platform
- **Geometry and Algebra**
- Open source and free
- Web, mobile, desktop versions.

The Calculator Suite

The screenshot displays the GeoGebra website's 'Calculators' section. At the top, the GeoGebra logo is on the left, followed by 'Resources' and 'Calculators' dropdown menus. A search bar and a 'Join Lesson' button with a user icon are on the right. Below this, six calculator options are presented in a grid: 'Calculator Suite' (Explore functions, solve equations, construct geometric shapes), 'Graphing Calculator' (Visualize equations and functions with interactive graphs and plots), 'Geometry' (Explore geometric concepts and constructions in a dynamic environment), '3D Calculator' (Graph functions and perform calculations in 3D), 'Scientific Calculator' (Perform calculations with fractions, statistics and exponential functions), and 'Notes' (Explore our online note taking app with interactive graphs, slides, images and much more). A horizontal bar below the grid contains 'App Downloads' and 'Get started with the GeoGebra Apps' links. Below this bar are two buttons: 'Start Calculator' and 'Math Resources'. A decorative graphic of a person using a calculator is positioned to the right of the buttons. At the bottom, a section titled 'Recommended math resources' for 'GeoGebra-curated for Grades 4 to 12' features a row of buttons for 'Number Sense', 'Operations', 'Algebra', 'Measurement', 'Geometry', and 'Probability and Statistics'.

GeoGebra Resources Calculators Search Join Lesson E

Calculator Suite
Explore functions, solve equations, construct geometric shapes

Graphing Calculator
Visualize equations and functions with interactive graphs and plots

Geometry
Explore geometric concepts and constructions in a dynamic environment

3D Calculator
Graph functions and perform calculations in 3D

Scientific Calculator
Perform calculations with fractions, statistics and exponential functions

Notes
Explore our online note taking app with interactive graphs, slides, images and much more

App Downloads → Get started with the GeoGebra Apps →

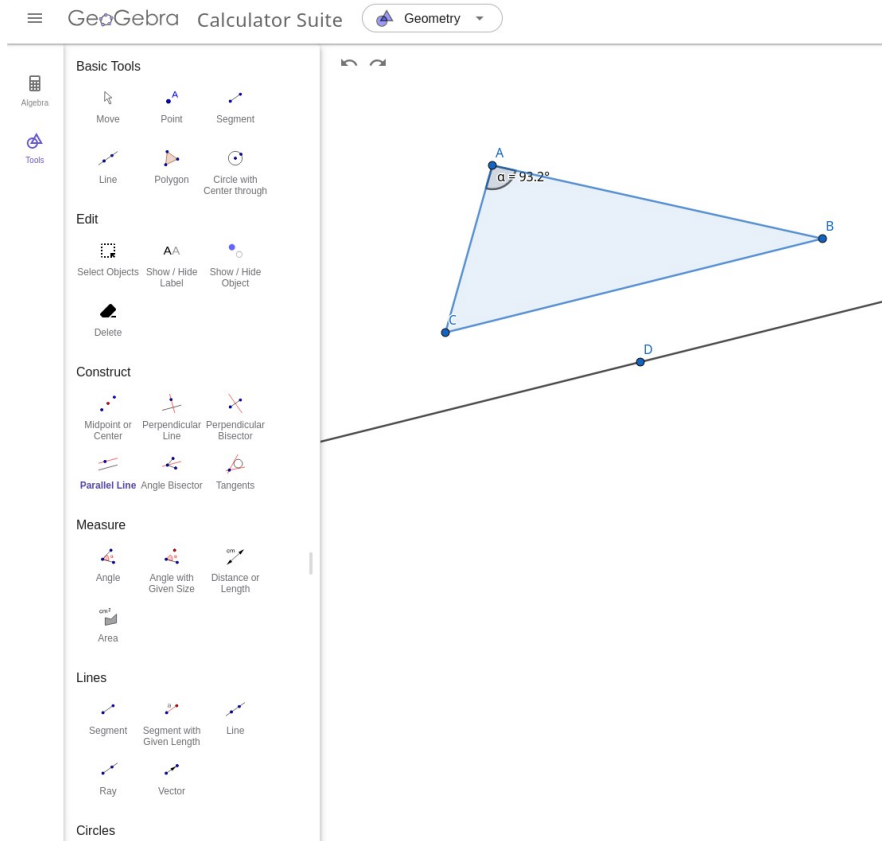
Start Calculator Math Resources

Recommended math resources
GeoGebra-curated for Grades 4 to 12

Number Sense Operations Algebra Measurement Geometry Probability and Statistics

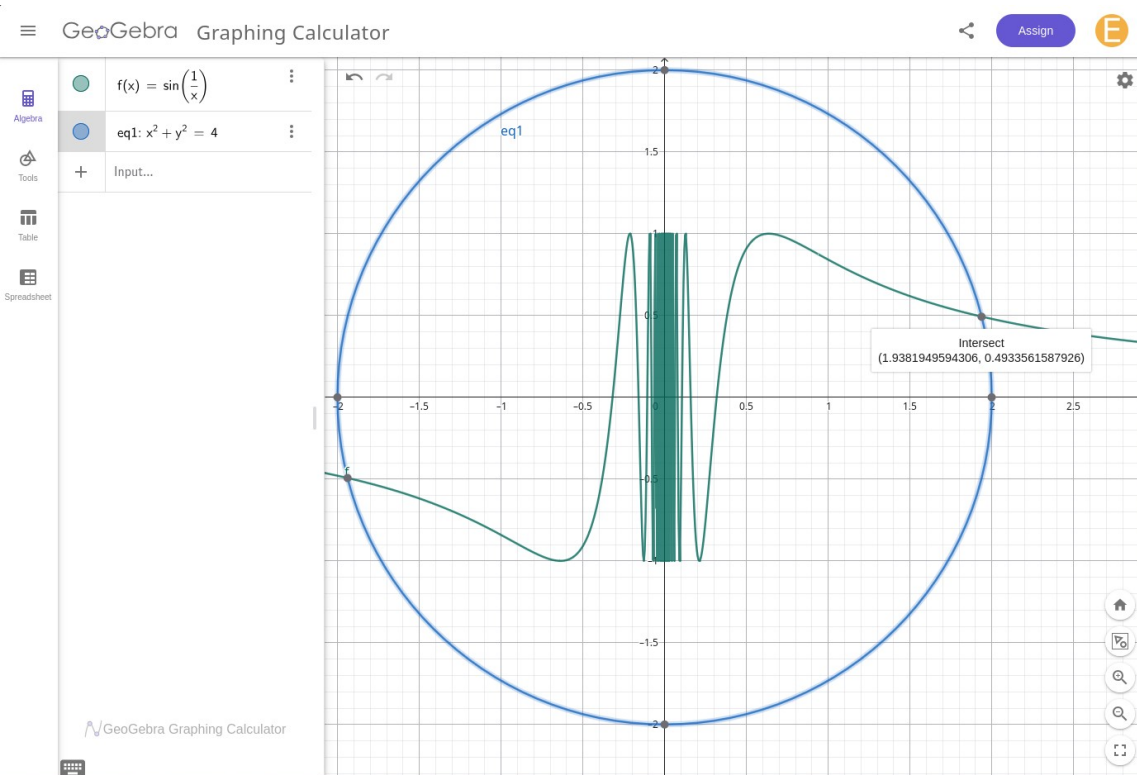
- **Modular apps**
- **Everyone can select what they need.**
- **Avoids clutter.**

Geometry



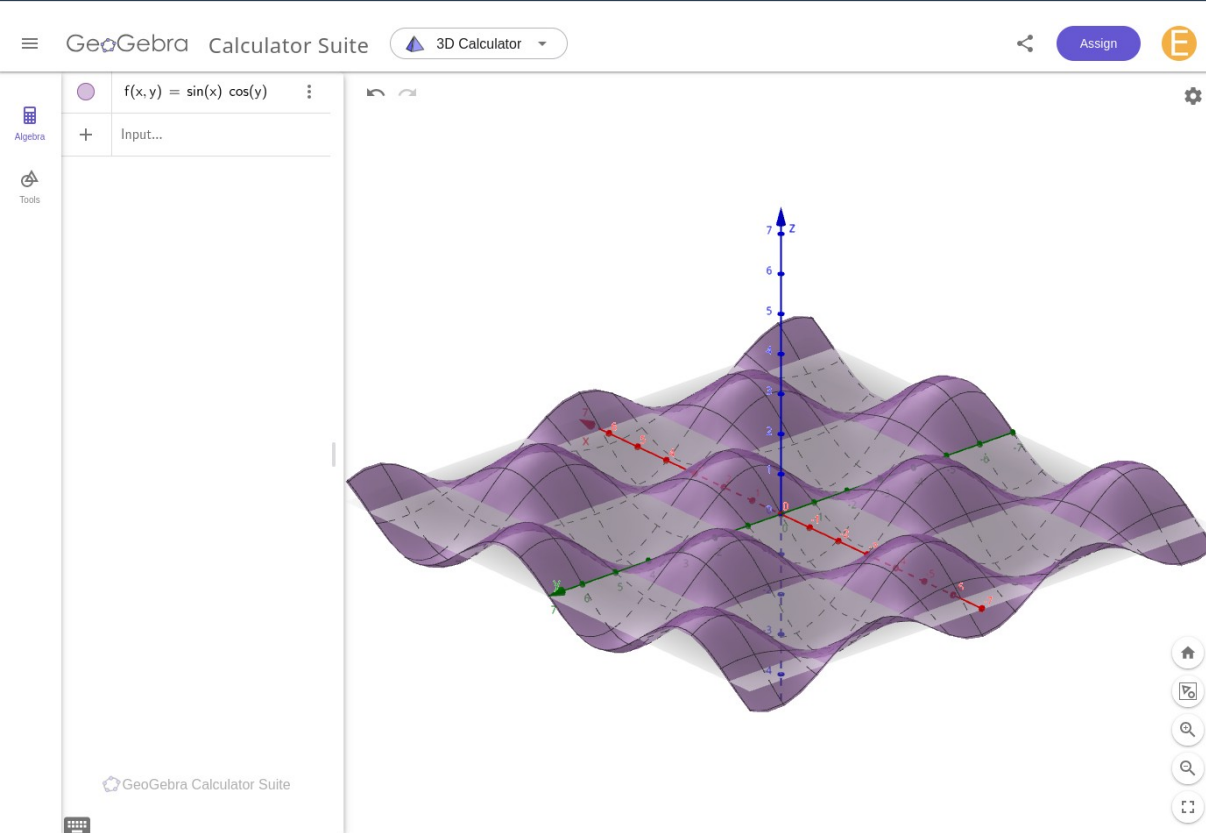
- **Constructing points, lines, angles, and polygons.**
- **Building interactive proofs and exploring spatial relationships.**

Graphing Calculator



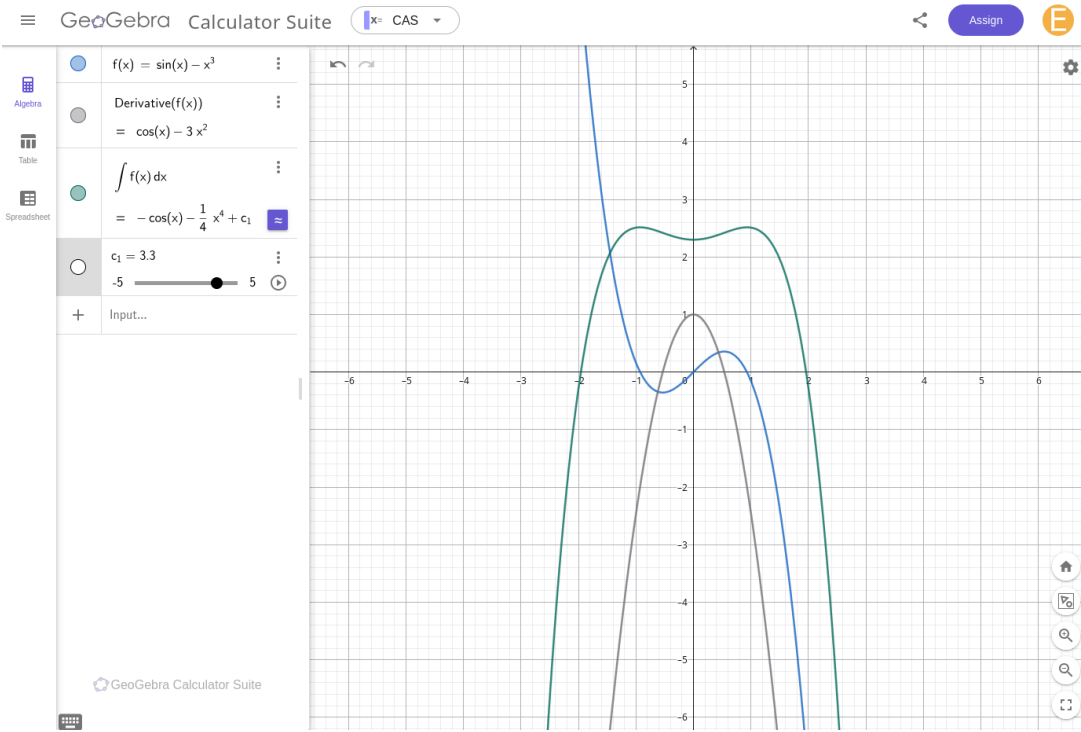
- Plotting functions, sliders, and coordinate geometry.
- Visualizing function transformations, roots, and derivatives.

3D Calculator



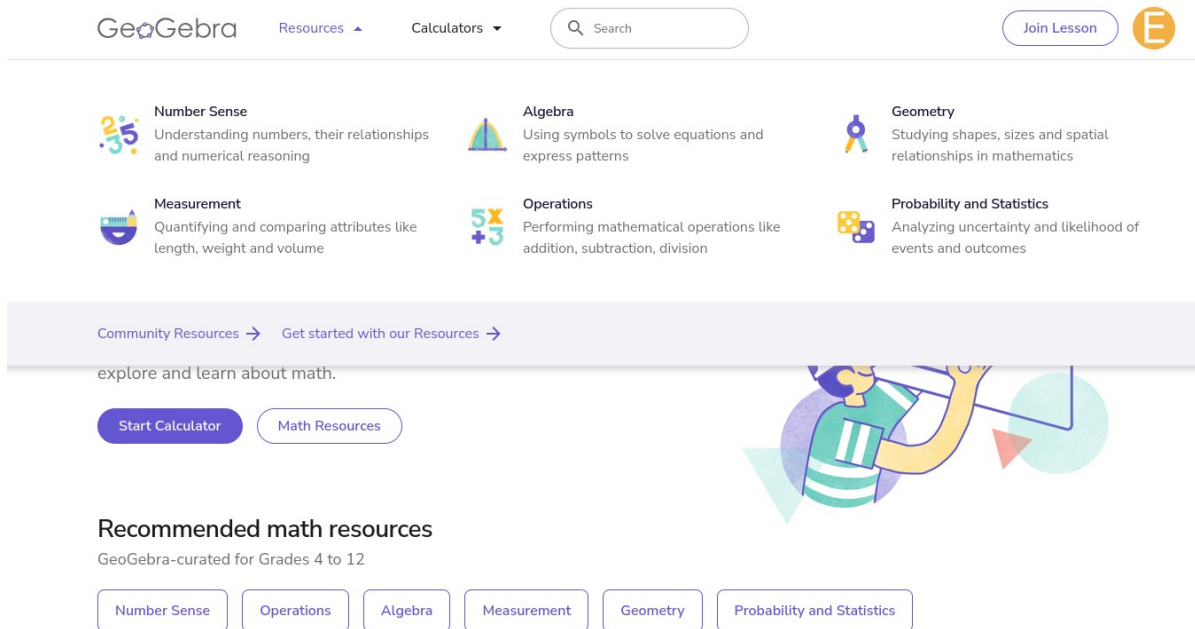
- Plotting solids, spheres, and 3D intersections.
- Visualizing multivariable calculus or complex geometric solids.

CAS (Computer Algebra System)



- **Symbolic math computation.**
- **Solving complex equations, working with matrices, or advanced number theory.**
- **Integral and derivative calculations.**

Resources



The screenshot shows the GeoGebra website's 'Resources' section. At the top, there's a navigation bar with the GeoGebra logo, 'Resources' (with a dropdown arrow), 'Calculators' (with a dropdown arrow), a search bar, a 'Join Lesson' button, and a user profile icon 'E'. Below the navigation bar, six resource categories are displayed in a grid: 'Number Sense' (Understanding numbers, their relationships and numerical reasoning), 'Algebra' (Using symbols to solve equations and express patterns), 'Geometry' (Studying shapes, sizes and spatial relationships in mathematics), 'Measurement' (Quantifying and comparing attributes like length, weight and volume), 'Operations' (Performing mathematical operations like addition, subtraction, division), and 'Probability and Statistics' (Analyzing uncertainty and likelihood of events and outcomes). Each category has a small icon. Below this grid is a light purple banner with the text 'Community Resources → Get started with our Resources →' and 'explore and learn about math.' Below the banner are two buttons: 'Start Calculator' and 'Math Resources'. To the right of these buttons is a large illustration of a person in a green shirt holding a magnifying glass over a pie chart. Below the illustration, the section 'Recommended math resources' is shown, with the subtitle 'GeoGebra-curated for Grades 4 to 12'. At the bottom, there are six buttons: 'Number Sense', 'Operations', 'Algebra', 'Measurement', 'Geometry', and 'Probability and Statistics'.

GeoGebra Resources Calculators Search Join Lesson E

Number Sense
Understanding numbers, their relationships and numerical reasoning

Algebra
Using symbols to solve equations and express patterns

Geometry
Studying shapes, sizes and spatial relationships in mathematics

Measurement
Quantifying and comparing attributes like length, weight and volume

Operations
Performing mathematical operations like addition, subtraction, division

Probability and Statistics
Analyzing uncertainty and likelihood of events and outcomes

Community Resources → Get started with our Resources →
explore and learn about math.

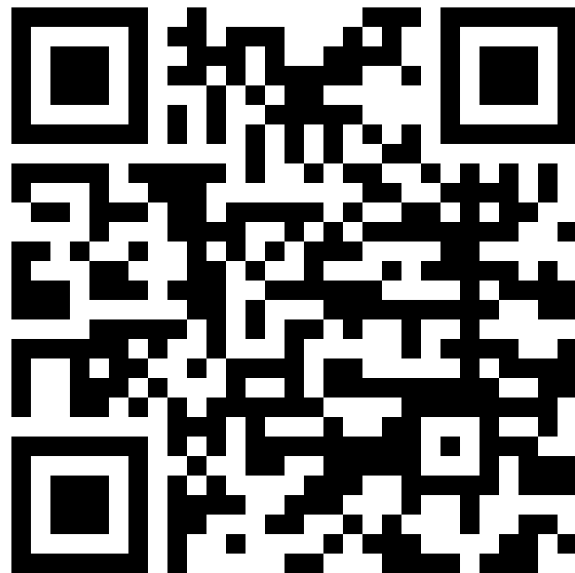
Start Calculator Math Resources

Recommended math resources
GeoGebra-curated for Grades 4 to 12

Number Sense Operations Algebra Measurement Geometry Probability and Statistics

- Everyone can publish their work.
- Many published works are accessible for everyone.

A Geogebra Activity



Classroom Integration

- Exams, Quizzes
- Discovery learning
- Students are able to make conjectures and generalizations
- Constructing proofs.
- A Lesson guided by geogebra