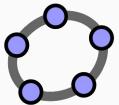
#### Features & Possibilities -An Overview

By Sangeeta Gulati National ICT Awardee Sanskriti School, New Delhi

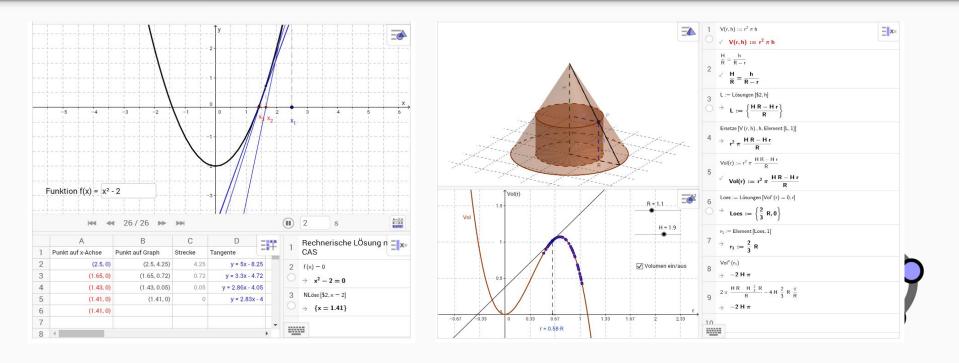


## What is GeoGebra?

- GeoGebra is a dynamic mathematics software for all levels of education that brings together geometry, algebra, spreadsheets, graphing, statistics and calculus in one easy-to-use package.
- Open source software freely available for non-commercial users. Download available at www.geogebra.org
- Tasks in GeoGebra may be designed to enable students to make conjectures and understand mathematical concepts.



# GeoGebra = Geometry + Algebra + Spreadsheet + 3D + Statistics

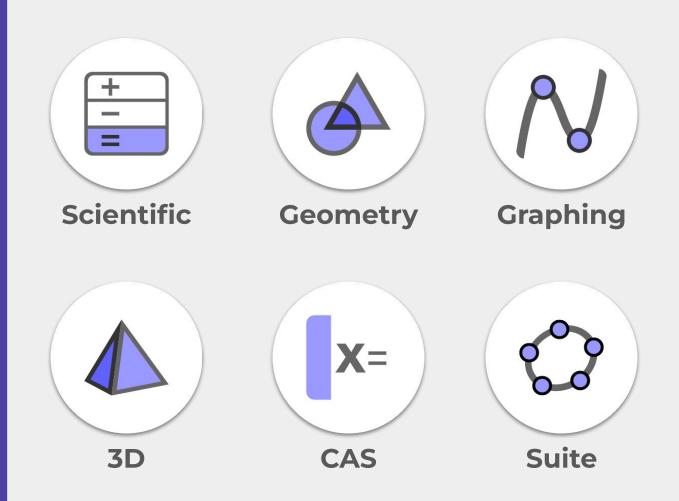




#### www.geogebra.org/download



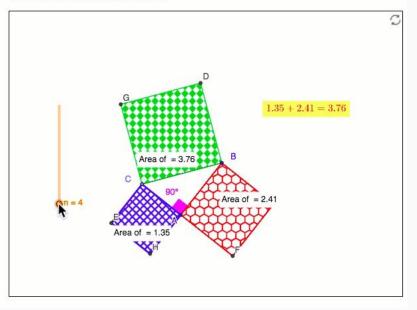




## **Maths Comes Alive With GeoGebra**

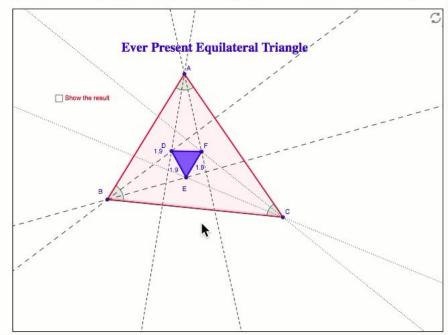
#### Pythagoras Theorem for Regular n-gons

Drag the slider. Observe the relation between the three areas. Do you agree that the Pythagoras Theorem is true for the regular n-gons ?!

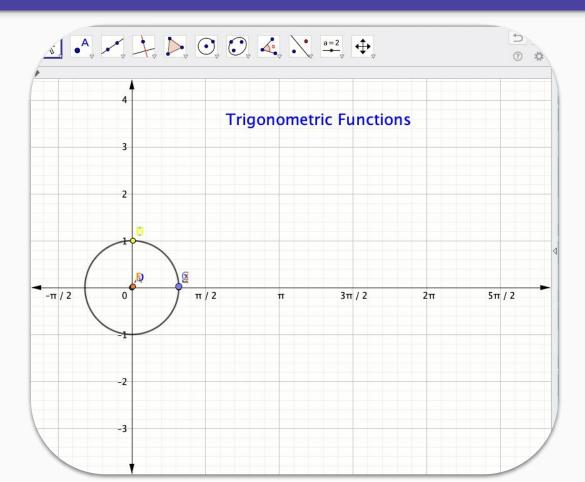


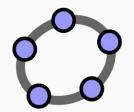
#### Ever Present Equilateral Triangle

Drag any of the three vertices of the triangle ABC, observe the relation between the three sides of the triangle DEF

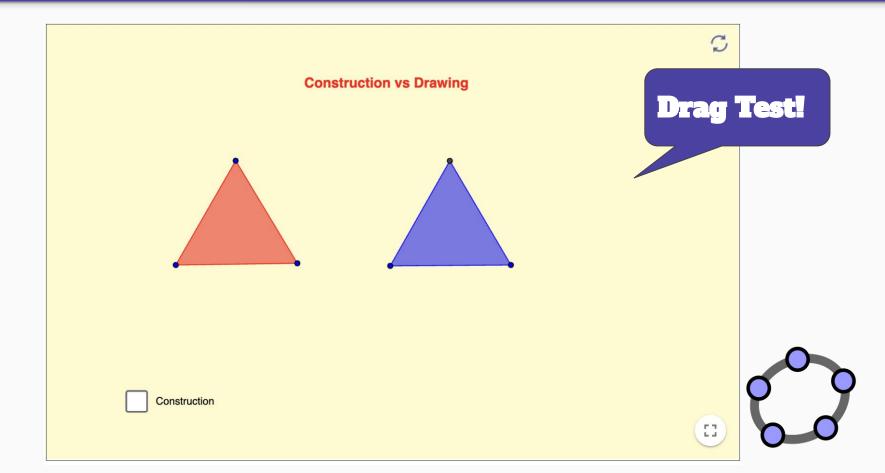


#### **Create those "Aha" Moments**



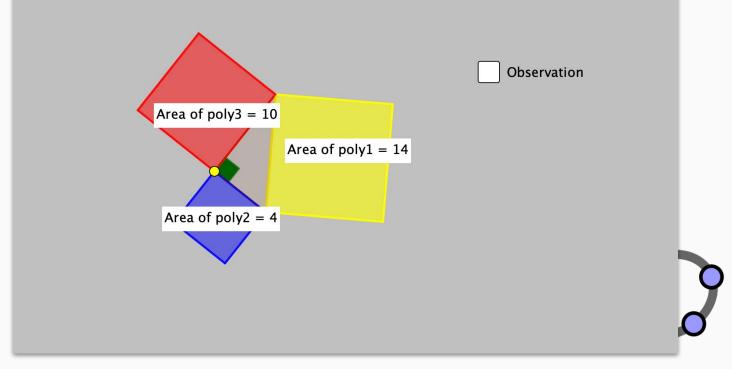


#### **Construction vs Drawing**

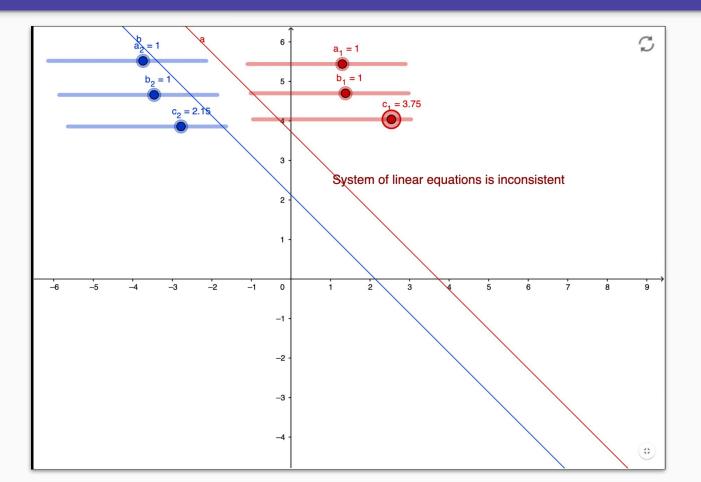


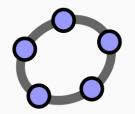
## **Make Conjectures**

#### Drag the Big Yellow point. What do you observe?

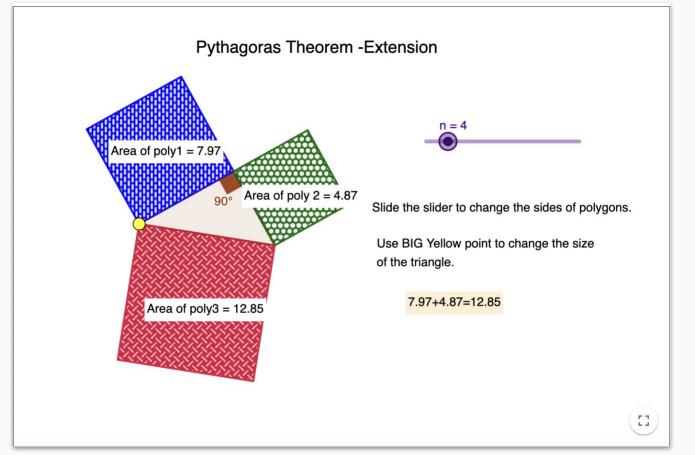


#### **Sliders in GeoGebra**

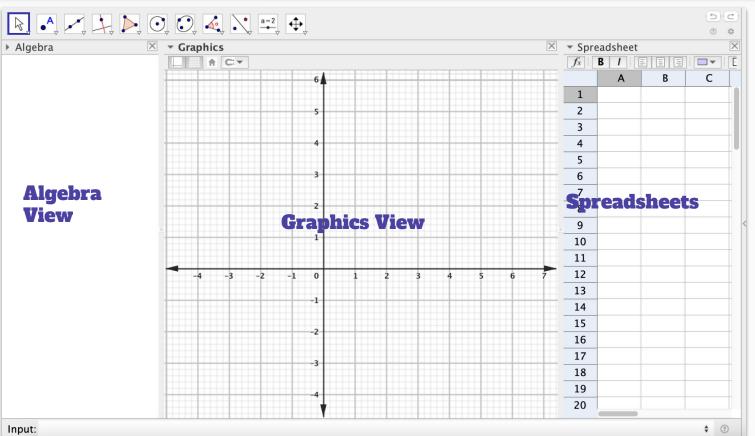




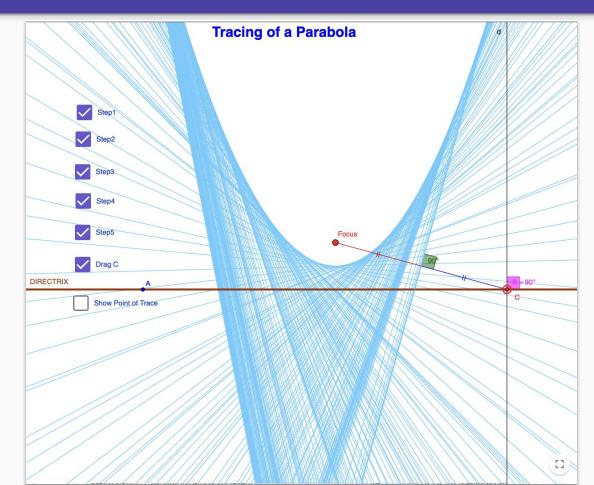
#### **Extensions & Explorations**

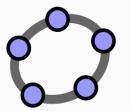


# **Multiple Representation**

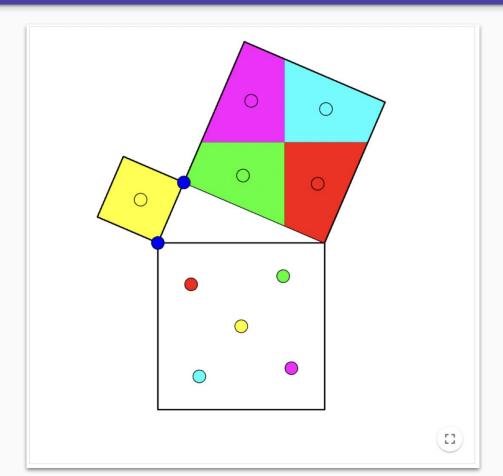


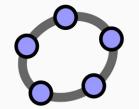
#### **Demonstration Tool- Step by Step Construction**



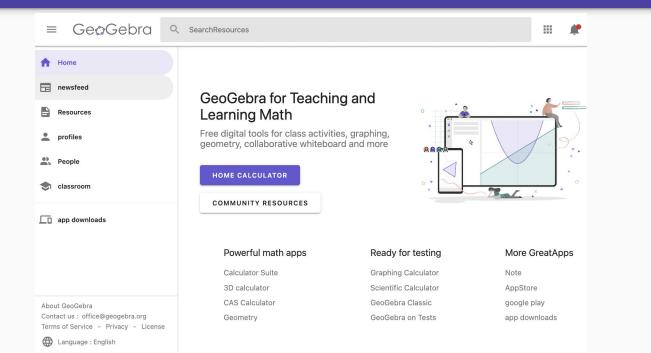


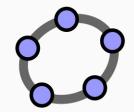
#### Visual Proofs & GeoGebra Worksheets





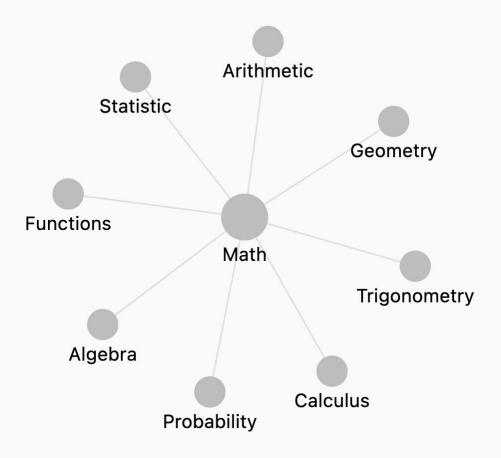
## GeoGebra on Web: www.geogebra.org





# Nake an account in GeoGebra www.geogebra.org

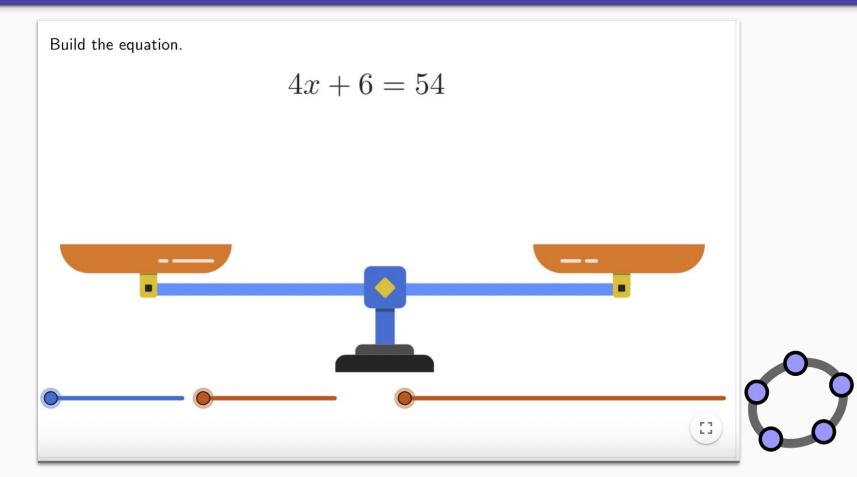
**Over 1 million** community created, free activities, simulations, exercises, lessons, and for games math 2 science!



## GeoGebra Classroom: Live conversations with interactive math tools

- *GeoGebra Classroom* is a virtual platform through which teachers can Assign interactive and engaging tasks for students
- View live updated progress of students working on a specific task
- view which tasks students have (or have not) started
- ask the entire class questions and see all student answers instantly
- Hide student names when displaying student responses to questions
- team-teach together by adding co-teachers
- facilitate rich, interactive discussions among all students, groups of students, and individual students.

#### **Experience GeoGebra Classroom**



#### Learn GeoGebra

#### tutorials

Learn how easy it is to use GeoGebra apps with our tutorial videos and courses!

	$\mathbb{N}$	8	83
воок Learn GeoGebra Classroom	воок Learn Graphing Calculator	BOOK Learn Calculator Suite	воок Learn GeoGebra Class
GeoGebra team	GeoGebra Team German	GeoGebra team	GeoGebra Team German
BOOK Learn how to use	BOOK Learn CAS Calculator	BOOK LearnNotes	BOOK Learn Geometry
Resources GeoGebra team	GeoGebra team	GeoGebra team	GeoGebra Team German
	+		GeoGebra With Augmented Reality How to quickly set up on iOS & Android
воок Learn 3D Calculator	BOOK Learn Scientific Calculator	воок GeoGebra on Tests	воок GeoGebra 3D with AR Quick Setup Instructio
GeoGebra Team German	GeoGebra Team German	GeoGebra Team German	Tim Brzezinski

