

Dynamic Mathematics using GeoGebra - 2D

रश्मि कथूरिआ, कुलाची हंसराज मॉडल स्कूल

डायनामिक(गतिशील) गणित
GeoGebra के माध्यम से



आओ जाने GeoGebra क्या है!

GeoGebra is a dynamic Mathematics software that joins geometry, algebra and calculus.

[गतिशील(डायनामिक) गणित सॉफ्टवेयर है जो ज्यामिति, बीजगणित और कैलकुलस से जुड़ता है।]

आओ जाने GeoGebra क्या है!

- Free
- Easily downloadable
- Open Source
- Online Support available

GeoGebra Inventor



GeoGebra

- GeoGebra was invented by Markus Hohenwarter while a student at the University of Salzburg in 2001.

कैसे और कहाँ से डाउनलोड करें ?

**GeoGebra is a dynamic mathematics software
that can be downloaded from**

www.geogebra.org

<https://www.geogebra.org/download>

कौनसा सॉफ्टवेयर

Download GeoGebra Apps

Free offline GeoGebra apps for iOS, Android, Windows, Mac, Chromebook and Linux



Graphing Calculator

Graph functions, investigate equations, and plot data with our free graphing app

DOWNLOAD

START



3D Calculator

Graph 3D functions, plot surfaces and do 3D geometry with our free 3D Grapher

DOWNLOAD

START



Geometry

Construct circles, angles, transformations and more with our free geometry tool

DOWNLOAD

START



GeoGebra Classic 6

Apps bundle including free tools for geometry, spreadsheet, probability, and CAS

DOWNLOAD

START



CAS Calculator

Solve equations, expand and factor expressions, find derivatives and integrals



GeoGebra Classic 5

Apps bundle including free tools for geometry, spreadsheet, probability, and CAS

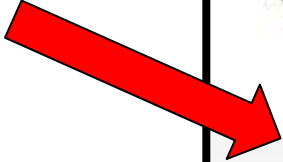
<https://www.geogebra.org/download>



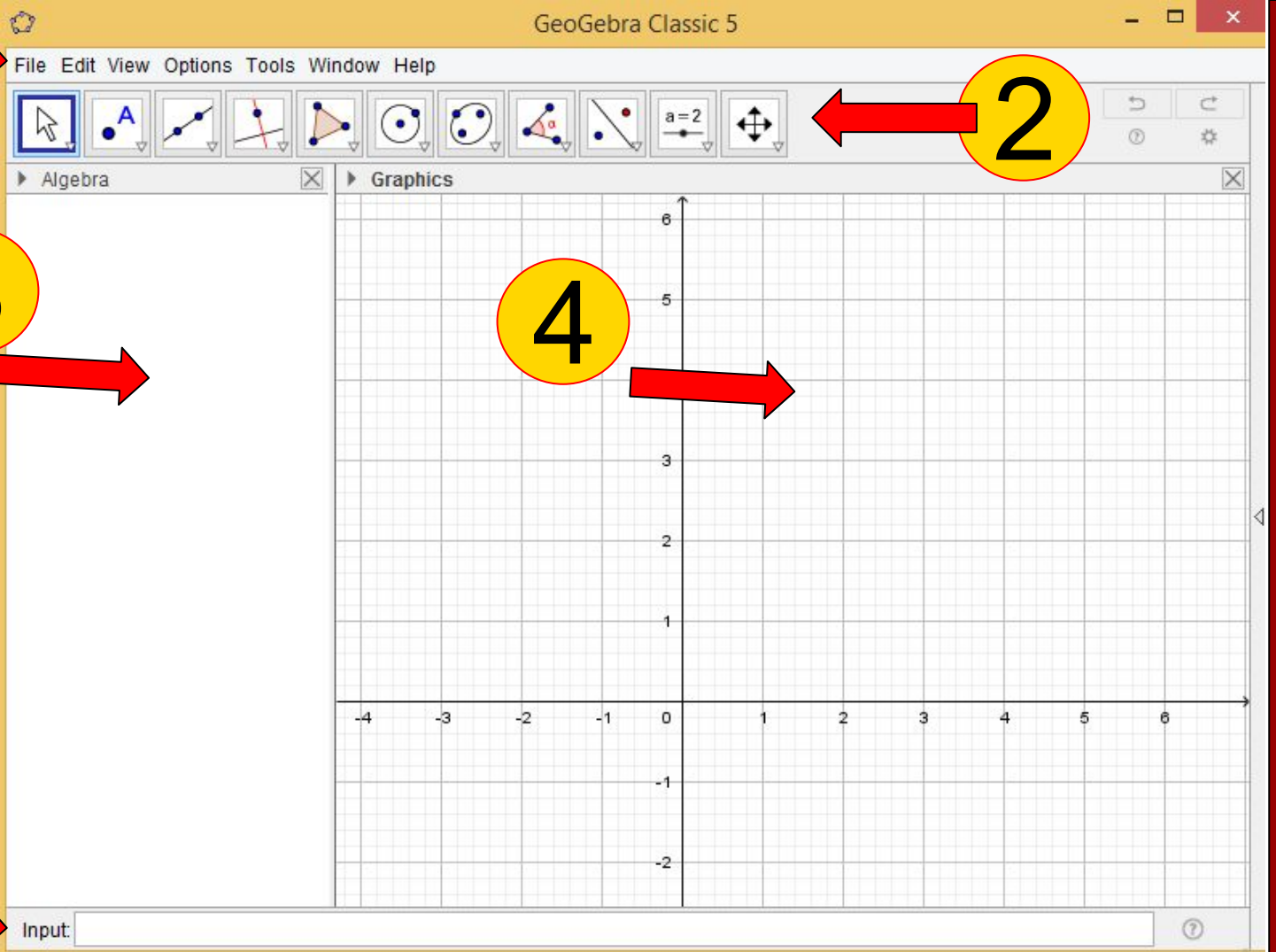
GeoGebra Classic 5

Apps bundle including free tools for geometry, spreadsheet, probability, and CAS

DOWNLOAD



जब हम
GeoGebra
पर क्लिक
करते हैं



1

2

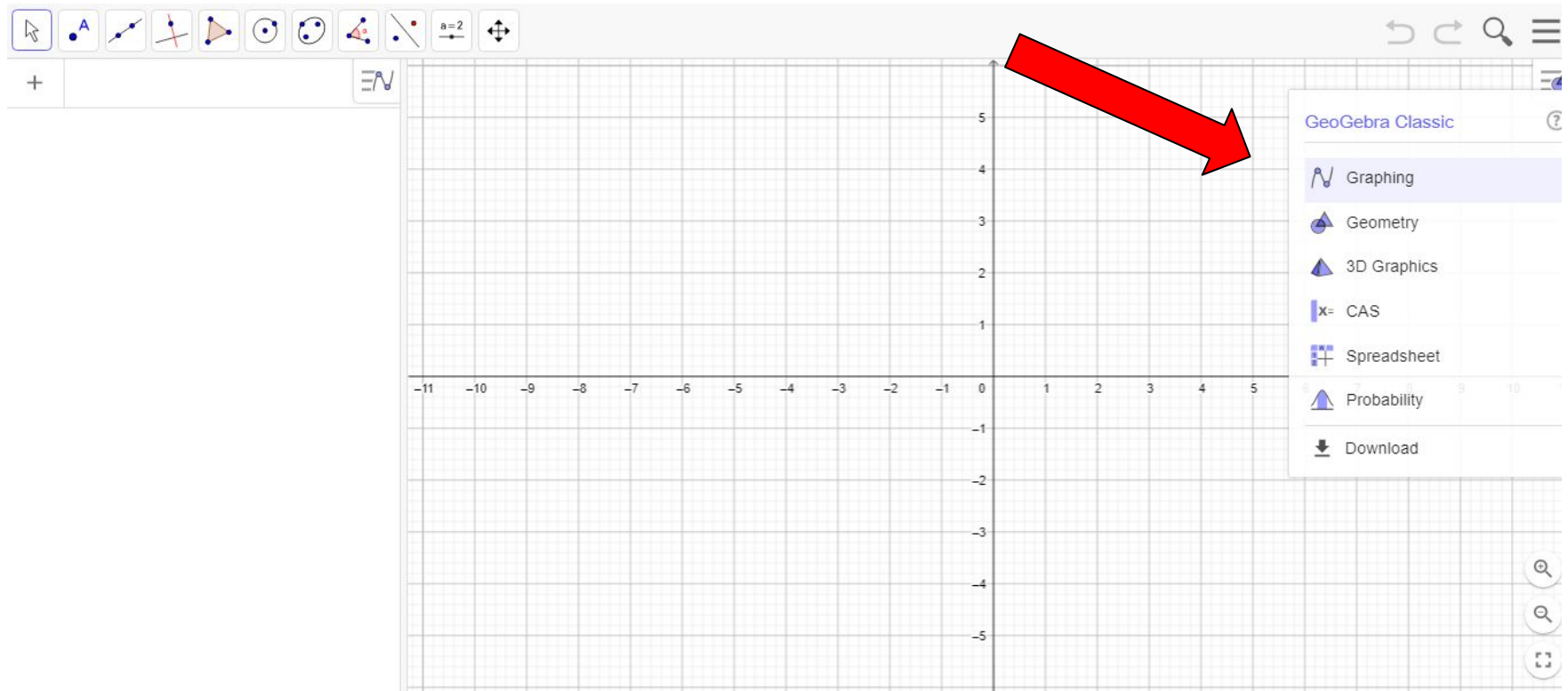
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अगर आप ऑनलाइन काम करना चाहते हैं तो

<https://www.geogebra.org/classic?lang=en>



The image shows the GeoGebra Classic web interface. At the top, there is a toolbar with various icons for navigation and construction. Below the toolbar is a large grid workspace with x and y axes ranging from -11 to 5. On the right side, a navigation menu is open, listing several options: Graphing (highlighted), Geometry, 3D Graphics, CAS, Spreadsheet, Probability, and Download. A large red arrow points from the top right towards the 'Graphing' option in the menu.

- GeoGebra Classic
- Graphing
- Geometry
- 3D Graphics
- CAS
- Spreadsheet
- Probability
- Download

इससे हम क्या क्या एक्सप्लोर कर सकते हैं?

Geogebra as a Pedagogical tool

1. Presentation Tool (Multiple representation)

- a) Graphical/Geometric Representation
- b) Algebraic/ Functional Representation
- c) Dynamic Visualizations
- d) Making Connections

2. Modeling Tool

- a) Dynamic Constructions
- b) Experiments and Discovery learning

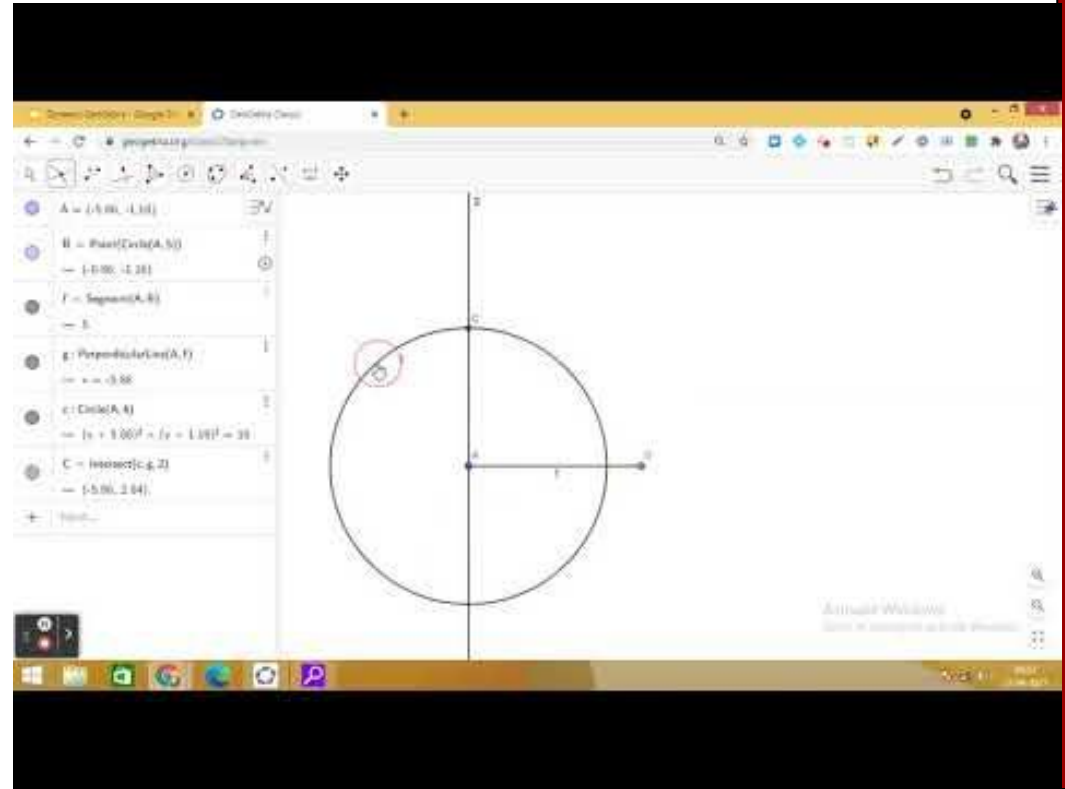
3. Authoring Tool

Creation, use and sharing of materials with an online community

<https://www.geogebra.org/classic?lang=en>

आइये
देखते हैं
कुछ
उदाहरण।

आयत
कैसे
बनाएं ?



आइये
देखते हैं
कुछ
नमूने।

स्लाइडर
का प्रयोग

