

CollabGEO(सहयोगी ज्यामिति उपकरण १.०)



About CollabGeo

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Introduction(परिचय)

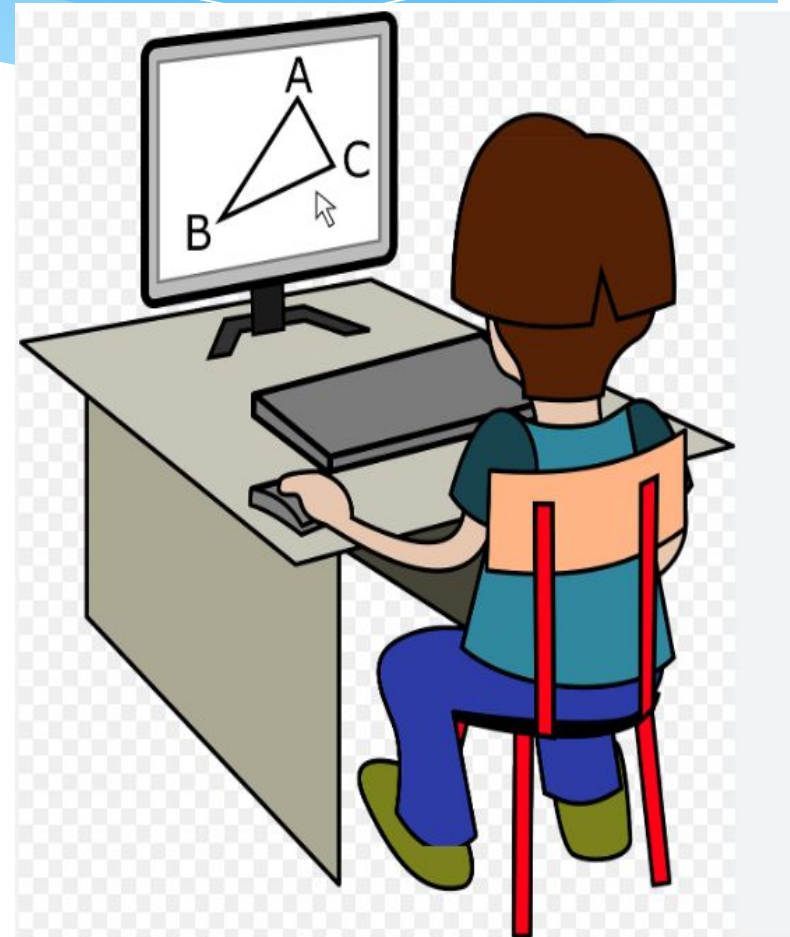
- ➔ CollabGeo is a two dimensional interactive web application created for understanding and teaching basic geometrical concepts
- ➔ The purpose of creating Online Collaborative 2D geometry and mathematical tool is to help teachers, tutors and students to make their practical lessons with real time interactions
- ➔ The objective is to enable registered user to understand basic concepts of 2D Geometry and mathematics pertaining to school education.
- ➔ CollabGEO 1.0 is a Web Application, so a secure internet connection and web browser is required. Once the page is accessible, user can work offline but will need an internet connectivity to collaborate or save files from your device browser.

System Requirement(तंत्र की ज़रूरते)

Desktop, Laptop, tablet or mobile

Internet connectivity

Modern web browsers like Google Chrome, Mozilla Firefox, Microsoft Edge, Opera

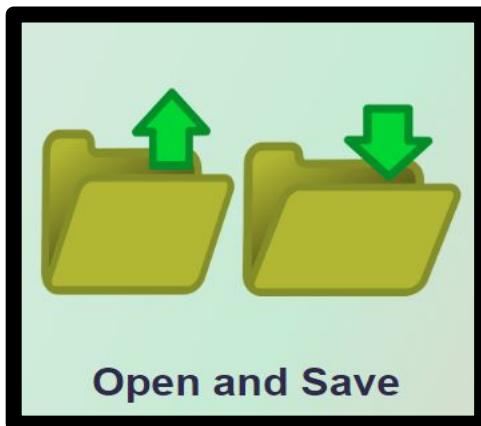
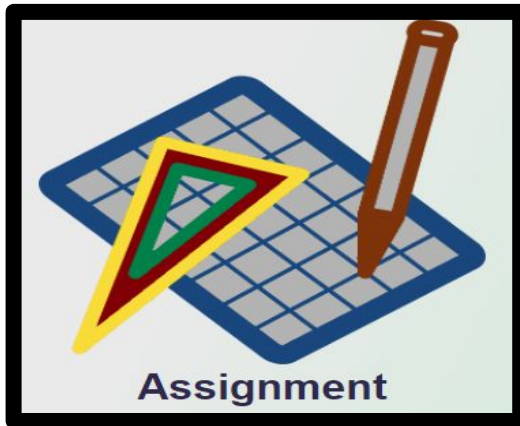


Purpose of CollabGEO (CollabGEO का उद्देश्य)

- * Making their practical lessons with real time interactions
- * Creating Online Collaborative 2D geometry and mathematical tool
- * Explain and practice theoretical concepts for students to understand and solve in a practical way
- * Understand basic concepts of 2D Geometry and mathematics
- * User will be able to draw 2D primitive geometry on browsers running on desktops and mobiles.



Features(विशेषताए)

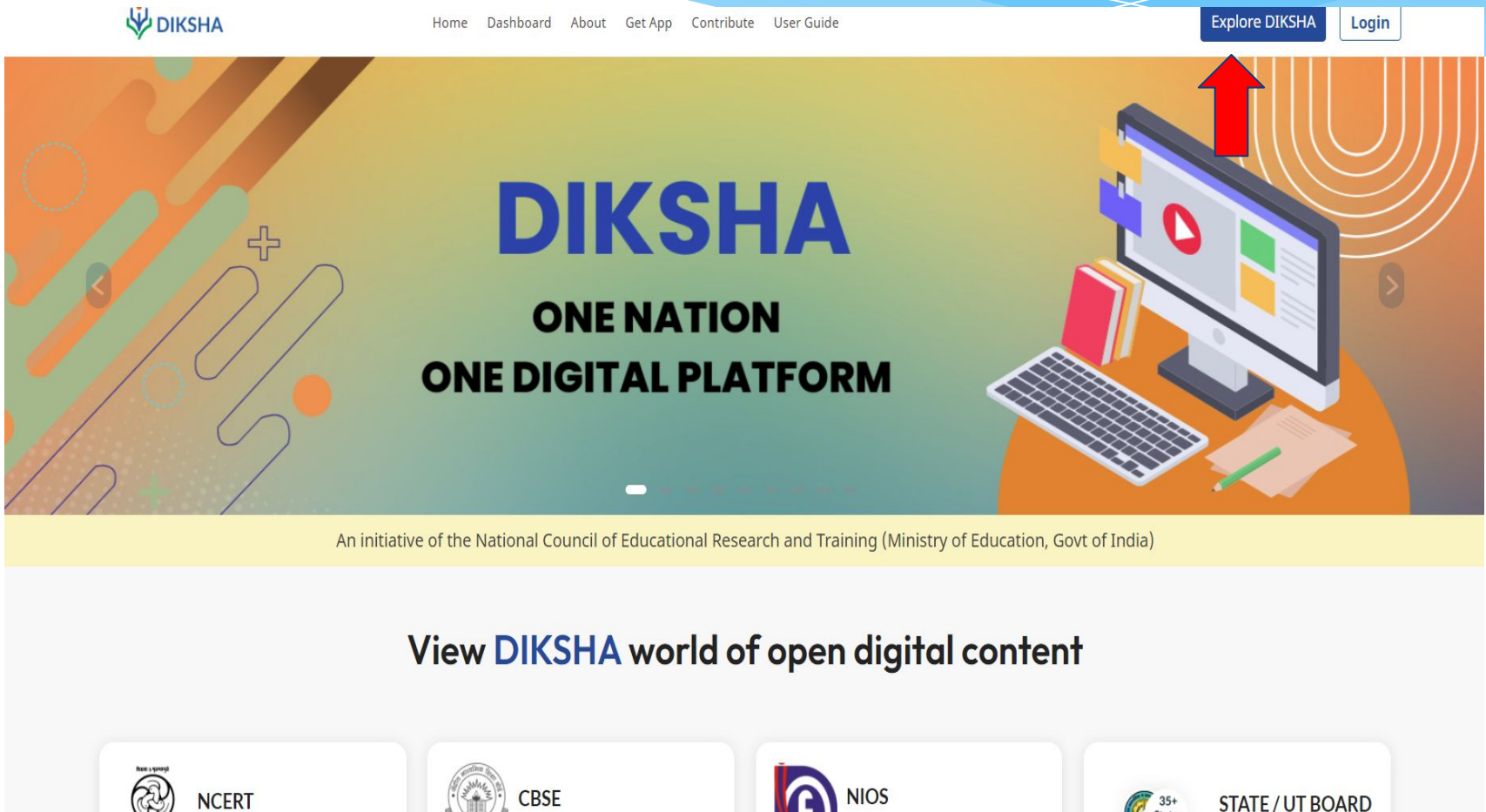


DIKSHA with CollabGeo

- ➔ **The integration of CollabGEO, an innovative online 2D geometry creation tool, with DIKSHA marks a significant advancement in digital education.**
- ➔ **This collaboration empowers educators and students alike to utilize CollabGEO's interactive features directly within the DIKSHA knowledge sharing digital platform.**
- ➔ **Teachers, educators gain the ability to create dynamic geometry diagrams effortlessly, enhancing their teaching materials with engaging visualizations.**
- ➔ **Students benefit from interactive learning experiences, enabling them to explore geometric concepts actively.**
- ➔ **This integration of CollabGEO with DIKSHA enhances the educational landscape by providing collaborative and interactive tools that foster deeper learning in mathematics.**

How to Navigate

Step -1



The screenshot shows the homepage of the DIKSHA platform. At the top left is the DIKSHA logo. The navigation menu includes 'Home', 'Dashboard', 'About', 'Get App', 'Contribute', and 'User Guide'. On the right side of the navigation bar, there are two buttons: 'Explore DIKSHA' and 'Login'. A red arrow points to the 'Explore DIKSHA' button. The main banner features the text 'DIKSHA ONE NATION ONE DIGITAL PLATFORM' and an illustration of a computer monitor displaying a play button icon. Below the banner, it states 'An initiative of the National Council of Educational Research and Training (Ministry of Education, Govt of India)'. The bottom section is titled 'View DIKSHA world of open digital content' and lists four categories: NCERT, CBSE, NIOS, and STATE / UT BOARD, each with its respective logo.

DIKSHA

ONE NATION
ONE DIGITAL PLATFORM

An initiative of the National Council of Educational Research and Training (Ministry of Education, Govt of India)

View **DIKSHA** world of open digital content

NCERT CBSE NIOS STATE / UT BOARD

Step-2

The screenshot shows the DIKSHA Digital Textbooks interface. At the top left is the DIKSHA logo. A search bar contains the text "Search or enter QR code" and a "Search" button. A language dropdown menu is set to "English". A navigation bar includes "Home", "Digital textbooks", "Courses", "TV classes", "All", and "About". A "Happy TEACHERS' DAY 5th September" banner is present. On the left, a filter sidebar shows "Board/Organization" set to "CBSE/NCERT", "Medium" set to "English", "Class" set to "Class 6", "Subject" set to "Mathematics", and "Published user type" set to "Student, Teacher". The main content area displays a grid of digital textbook cards for Class 6 Mathematics. A red arrow points to the "Digital textbooks" button in the navigation bar. A red arrow points to the "Class 6" filter in the sidebar. A red box with the text "Click Here" is overlaid on the first card. A red box with the text "write all details here" is overlaid on the second card.

Step-3

The screenshot displays the DIKSHA platform interface for the 'Knowing our Numbers' chapter. At the top, there is a search bar with the text 'Search or enter QR code' and a 'Search' button. The language is set to 'English'. Below this, the page title is '(NEW) Mathematics' with sub-headers 'CBSE • English • Class 6'. A 'Use Geometry Tool' button is visible in the top right corner, with a red arrow pointing to it. The main content area shows the chapter title 'Knowing our Numbers' and 'Chapter 1'. The text on the page includes an introduction to numbers and their use in daily life. On the right side, there is a sidebar with a 'Click Here' box highlighting the chapter title 'Chapter 1- Knowing Our Numbers'. Below the sidebar, there are options for 'e-Textbook', 'Explanation Content', and 'Credits and Licence information'. The page number 'Page 1 of 27 • 4%' is visible at the bottom left.

User Interface(उपयोगकर्ता इंटरफेस)

Menu Bar
(मेनूपट्टी)

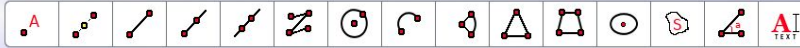
मिति उपकरण १.०

Collab GEO

गोइल संपादित करें दृश्य सहायता

कैनवास साफ करें पूर्ववत् अपूर्णवत्

सहकार्यता डिस्कनेक्ट



- बिंदु
- रेखा
- वृत्त
- आयत
- बहुभुज
- दीर्घवृत्त
- विविध
- माप

कोलेब्रिओ

लेखक

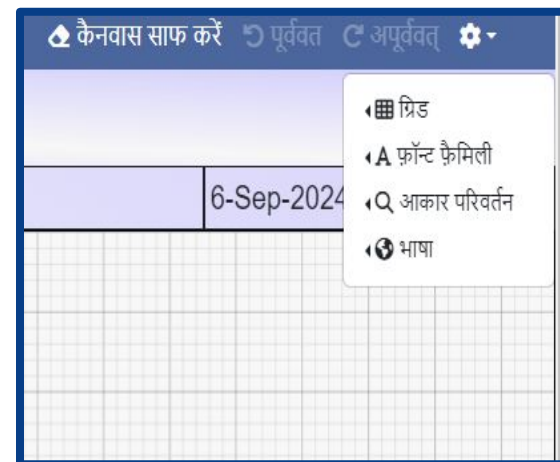
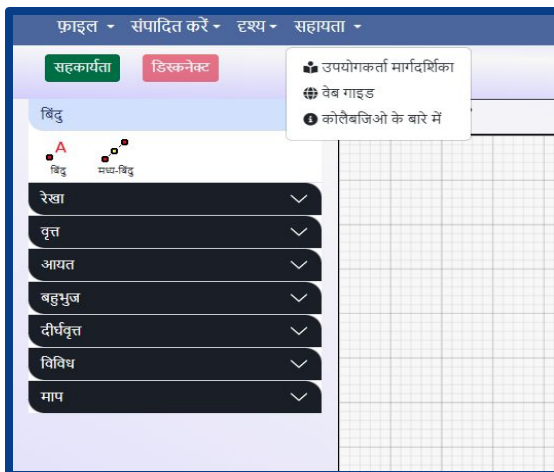
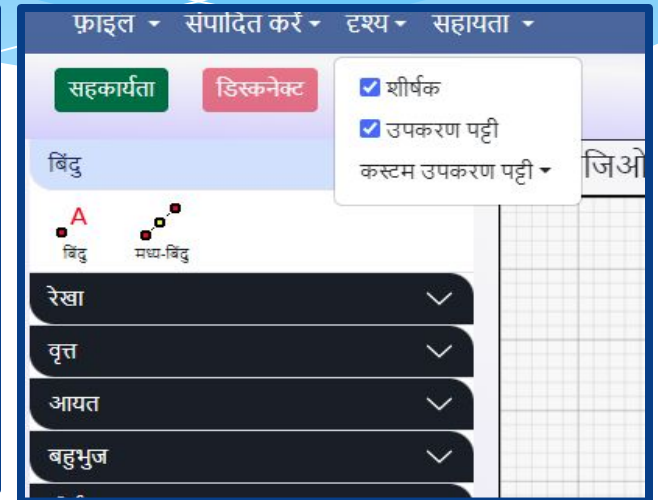
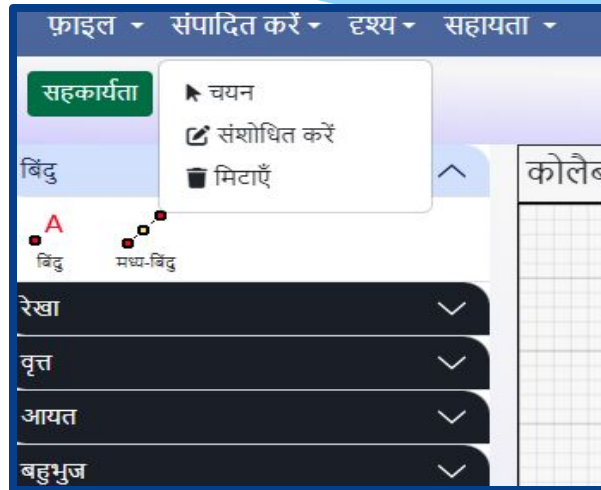
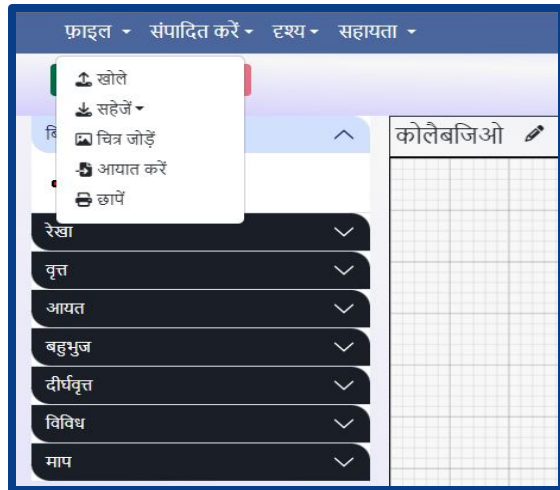
6-Sep-2024

Side Tool
Bar
(साइड टूल
बार)

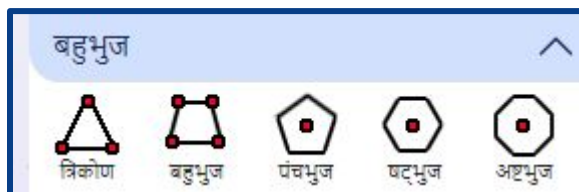
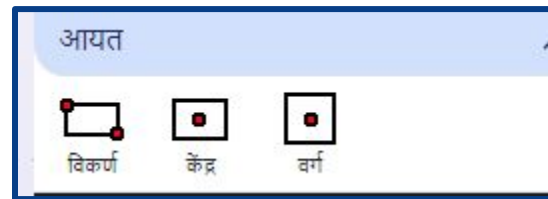
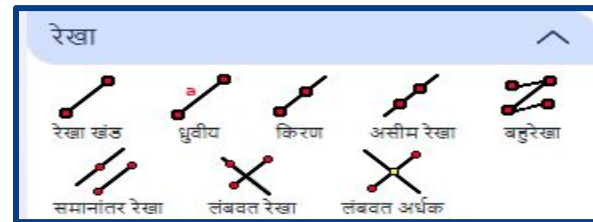
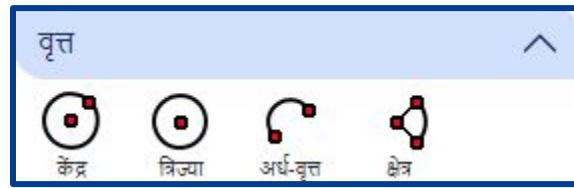
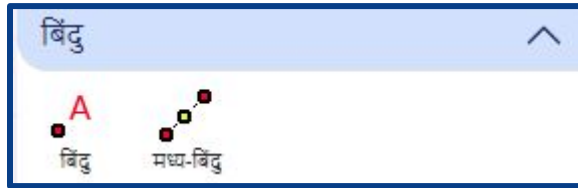
Title Bar

2D Drawing Canvas

Menu Bar (मेनू पट्टी)



Side Tool Bar(साइड टूल बार)



Geometry Creation(ज्यामिति रचना)

Point -Point , Mid Point

Line - Line Segment,Polar,Ray,Infinite line,Polyline, Perpendicular Line,Perpendicular Bisector Line

Circle- Circle with centre and point on circumference, Circle with Given Radius, Semi-circle, Circular Sector

Rectangle-Diagonal,Centre,Square

Polygon- Triangle, Polygon with given Radius, Pentagon,Hexagon,Octagon

Ellipse- Ellipse with Centre, ellipse with Focii

Miscellaneous- Sketch,Angle,Add Text

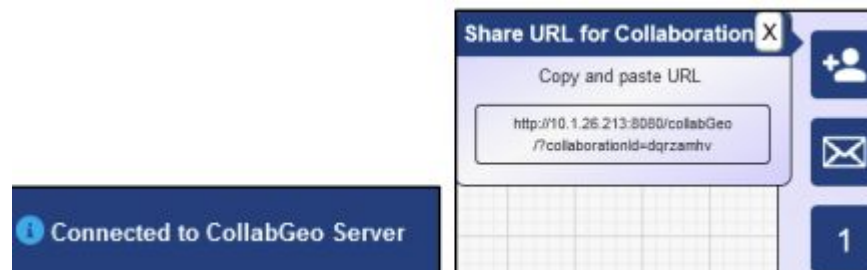
Measure –Length, Radius,Area, Perimeter

Real Time Collaboration (वास्तविक समय सहयोग)

This feature allow user to connect to CollabGEO 1.0 web application server for sharing an online session for creation of geometry and adding text by users connected through collaboration URL link.



When the user invokes Collaborate icon, the system prompts the following message and open a box with collaboration URL



Different Geometry colours during collaboration

System sets default black color to geometry and text.
System sets random colors to geometry or text created by respective user's connected on a collaborative session.

The image displays two side-by-side screenshots of the Collaborative Geometry Tool v1.0 interface, illustrating how different users' geometry entities are color-coded during a collaborative session.

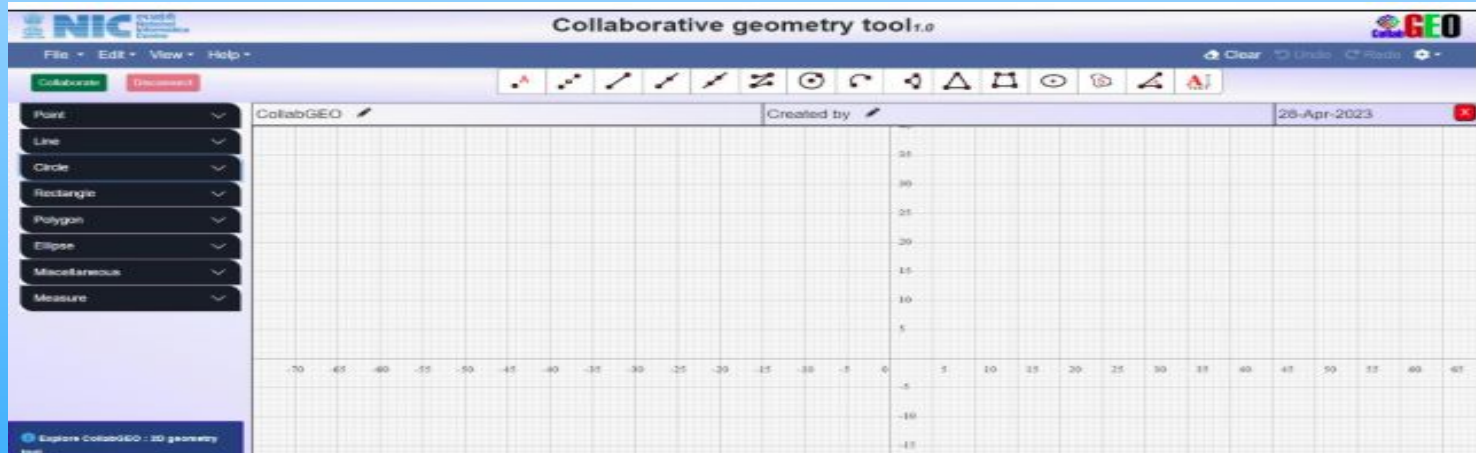
Left Screenshot: Shows a workspace with a red triangle and two circles. An orange callout box points to the red triangle with the text "Entity created by first user".

Right Screenshot: Shows the same workspace but with a red callout box pointing to a red triangle with the text "Entity created by second user".

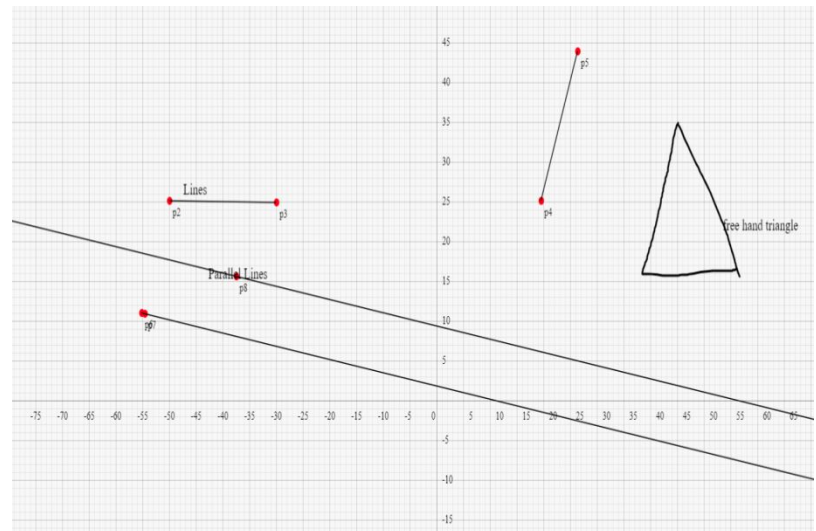
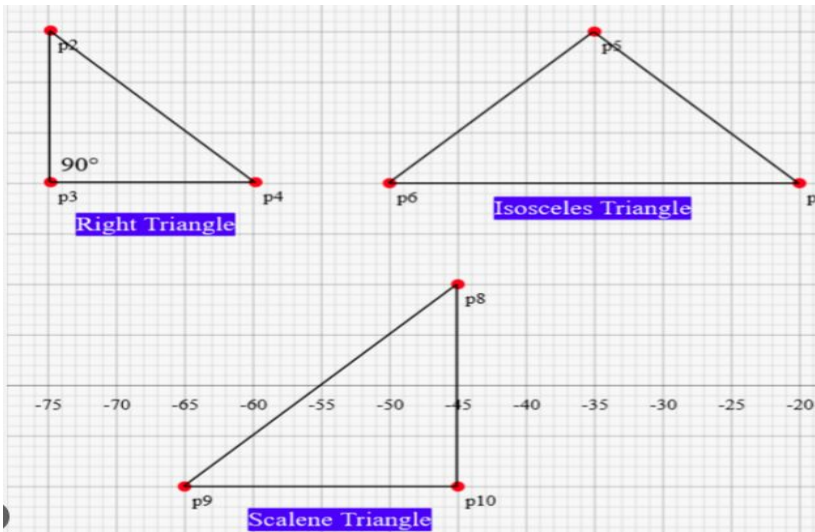
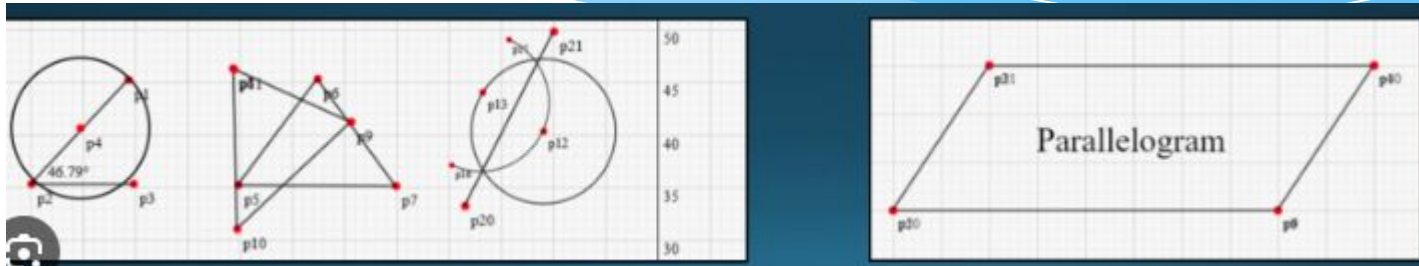
Both screenshots show the tool's interface, including the NIC logo, the title "Collaborative geometry tool v1.0", and a menu on the left with options like Point, Line, Circle, Rectangle, Polygon, Ellipse, and Measure. The right screenshot also shows a date "17-Mar-2023" and a share URL for collaboration.

Accessibility(सरल उपयोग)

- * The CollabGEO 1.0 is a web-based software application that helps in construction of 2d geometry on a canvas and collaborate with other users in a real-time sharing of geometry and text information on the canvas viewing area.
- * Open the following URL <https://collabgeo.nic.in/collabGeo/> in a web browser



Examples of Activities



Demonstration of CollabGeo (CollabGeo का प्रदर्शन)



Thank you!