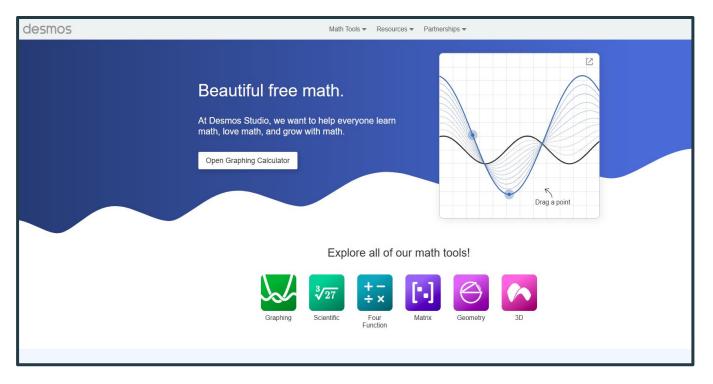
Desmos



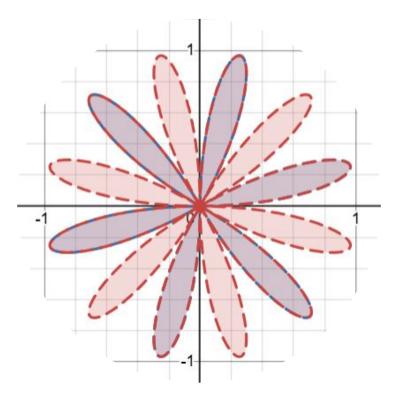
Desmos: A New Way to See Math

Presented by: Shivani Sharma

Academic Consultant CIET, NCERT

Desmos: A New Way to See Math

01 — Desmos provides powerful graphing calculator capabilities

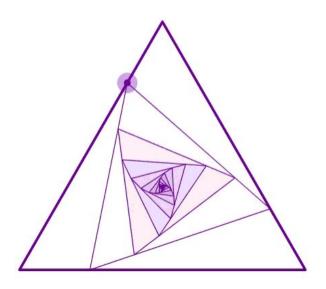


03 — Explore mathematical functions with ease using Desmos

O2 — See math in a new way with Desmos tools

O4 — Desmos is available as a web and mobile application

Introducing Desmos



- Desmos: an advanced online graphing calculator
- Makes learning math visual and interactive
- Completely free and accessible to everyone
- New way to explore the world of numbers

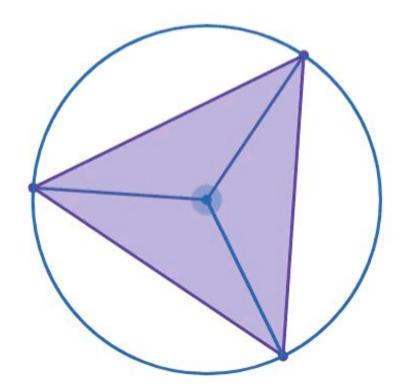
Accessing Desmos

- Desmos website is easily accessible with no installation.
- Access Desmos directly through any web browser. Type
 www.desmos.com in the address bar.
- Compatible with computers, tablets, and smartphones
- Free Desmos mobile apps are available for download



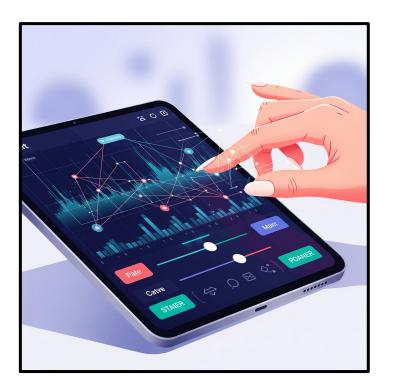
Why Desmos is Important

- Visualizes complex math concepts
- Encourages exploration and discovery
- Promotes accessibility for all
- Fosters creativity in learning



Desmos Key Features

- Dynamic graphing and visualization tools
- Interactive sliders for variable exploration
- Comprehensive scientific calculator functions
- Regressions, statistics, and list operations



The Desmos Suite

- Graphing Calculator for advanced visualizations
- Scientific Calculator for complex equations
- Four Function Calculator for basic arithmetic
- Matrix Calculator for linear algebra problems
- Geometry Tool for interactive geometric constructions
- 3D Calculator for three-dimensional graphing



Explore all of our math tools!



Graphing



Scientific



Four Function



Matrix



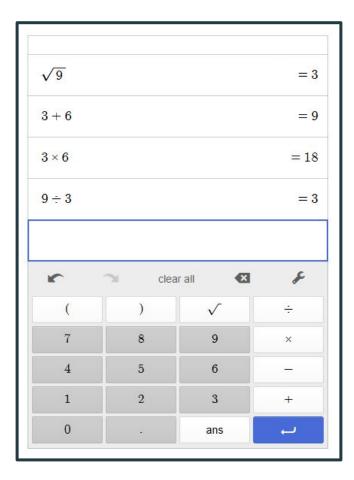
Geometry

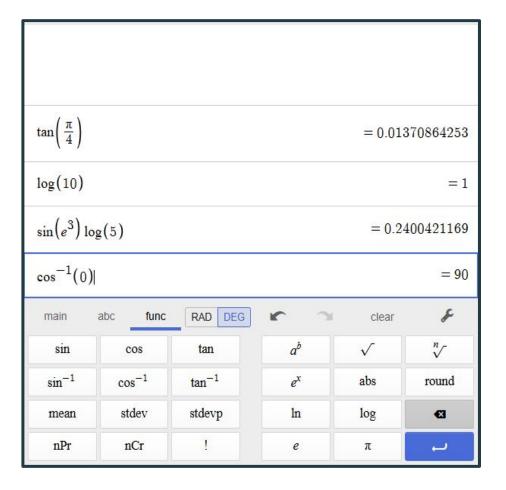


3D

Four Function Calculator: Simple

- Designed for quick and easy calculations
- Features the four basic operations
- Includes percentages and square roots
- Perfect for everyday math problems





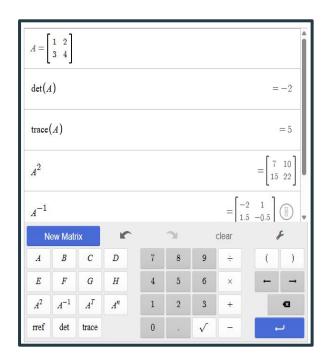
Scientific Calculator: Overview

- Performs complex numerical calculations with ease
- Handles basic arithmetic to advanced functions
- Includes trigonometry, logarithms, and exponents
- Simple interface, easier than physical calculators

Matrix Calculator: Overview

O1 Create and manipulate matrices of any size

O3 Perform essential matrix operations: Addition and Subtraction

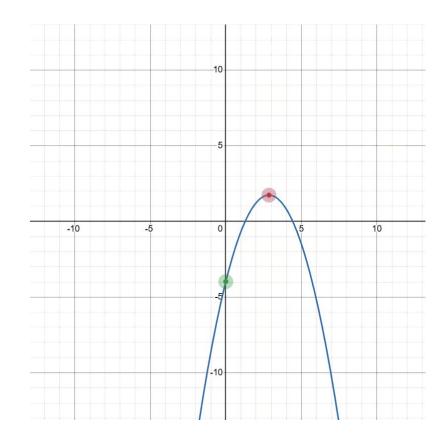


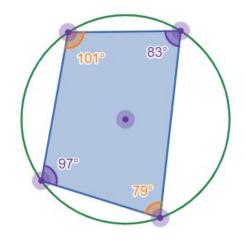
O2 Easily create and manipulate matrices of any size

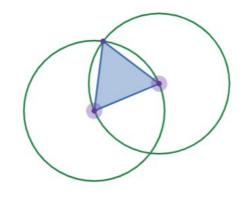
O4 Find determinants, inverses, and RREF efficiently

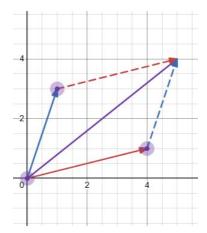
Graphing Calculator in Action

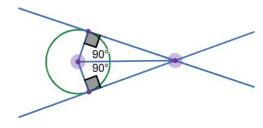
- Write the equation $y = ax^2 + bx + c$
- Use sliders for *a*, *b*, and *c*
- Demonstrate how the parabola changes
- Point out the vertex and axis of symmetry
 - "a" determines the parabola's shape
 - Positive "a" opens the parabola upwards
 - Negative "a" opens the parabola downwards
 - "c" moves the parabola vertically on the y-axis
 - "b" moves the parabola horizontally









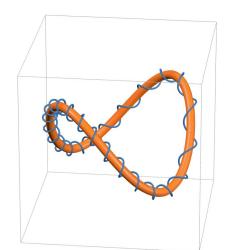


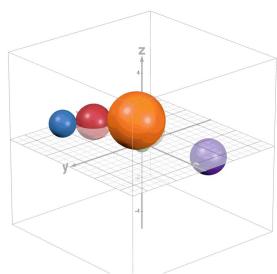
Geometry Tool: Overview

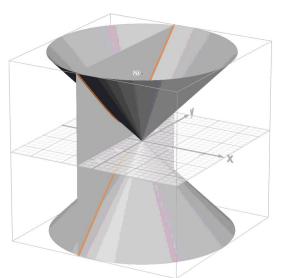
- Explore shapes, proofs, and transformations dynamically
- Construct points, lines, circles, and polygons
- Apply rotations, reflections, and translations
- Measure angles, lengths, and areas precisely
- Visualize and understand geometric theorems

3D Calculator

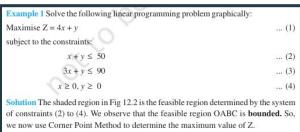
- Graph and explore three-dimensional surfaces
- Create stunning 3D curves and points
- Rotate and zoom to explore 3D graphs
- Ideal for multivariable calculus visualization





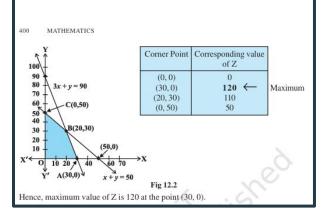


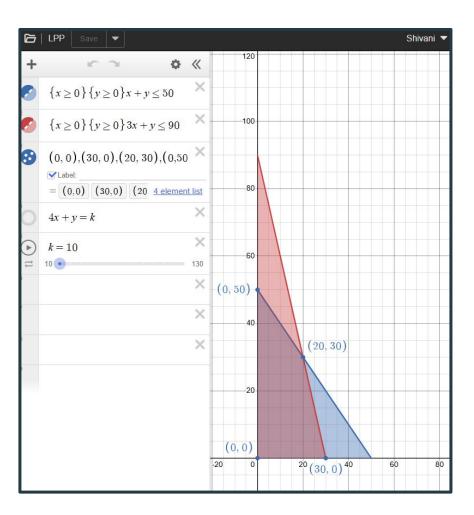
NCERT with Desmos



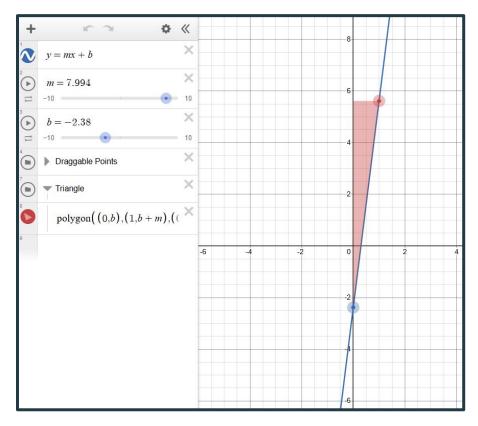
The coordinates of the corner points O, A, B and C are (0, 0), (30, 0), (20, 30) and (0, 50) respectively. Now we evaluate Z at each corner point.

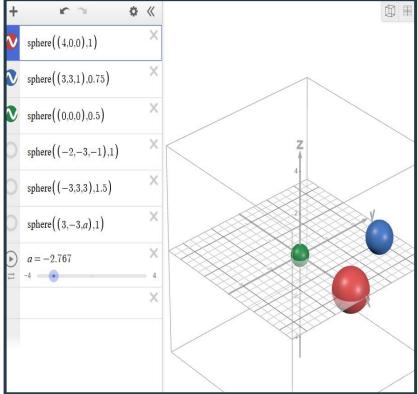
Reprint 2025-26



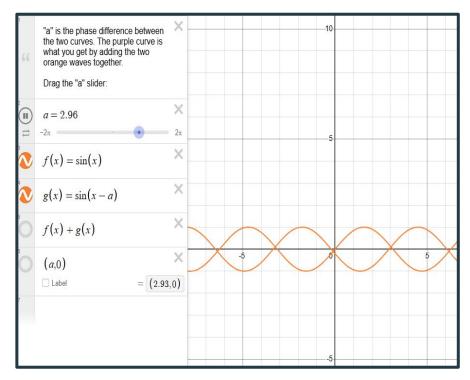


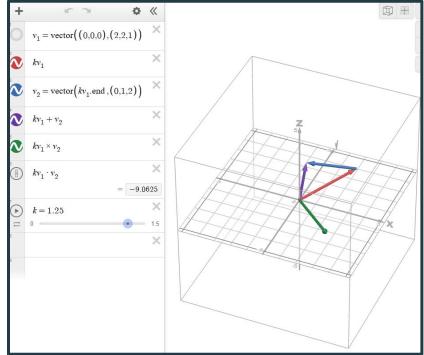
Some Examples





Some Examples





Desmos: The Verdict



- Desmos offers versatile tools for all math levels
- It is freely accessible online and easy to use
- Visualizations make math intuitive and engaging
- Connects equations to graphs for better understanding

THANK YOU!