

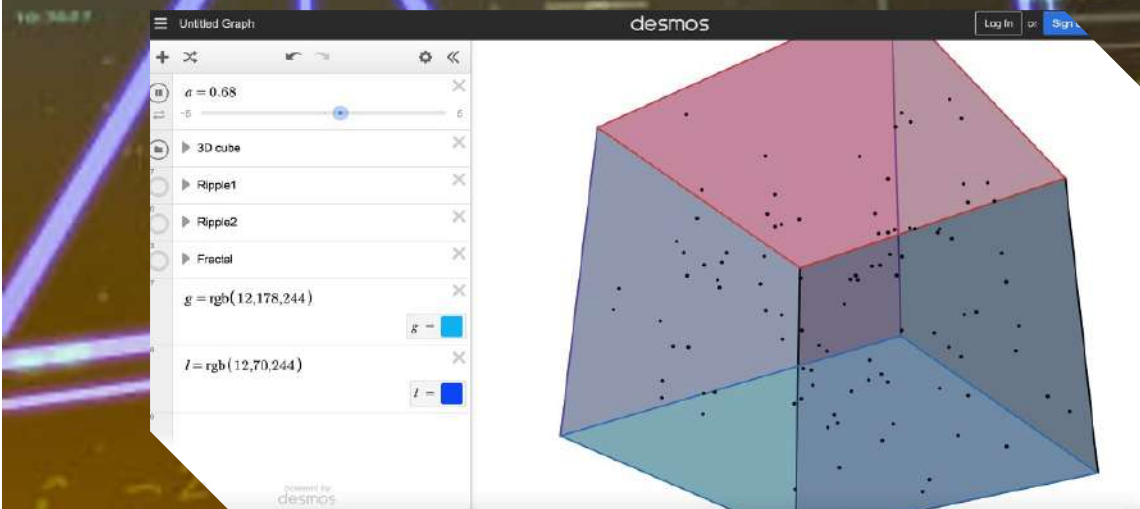
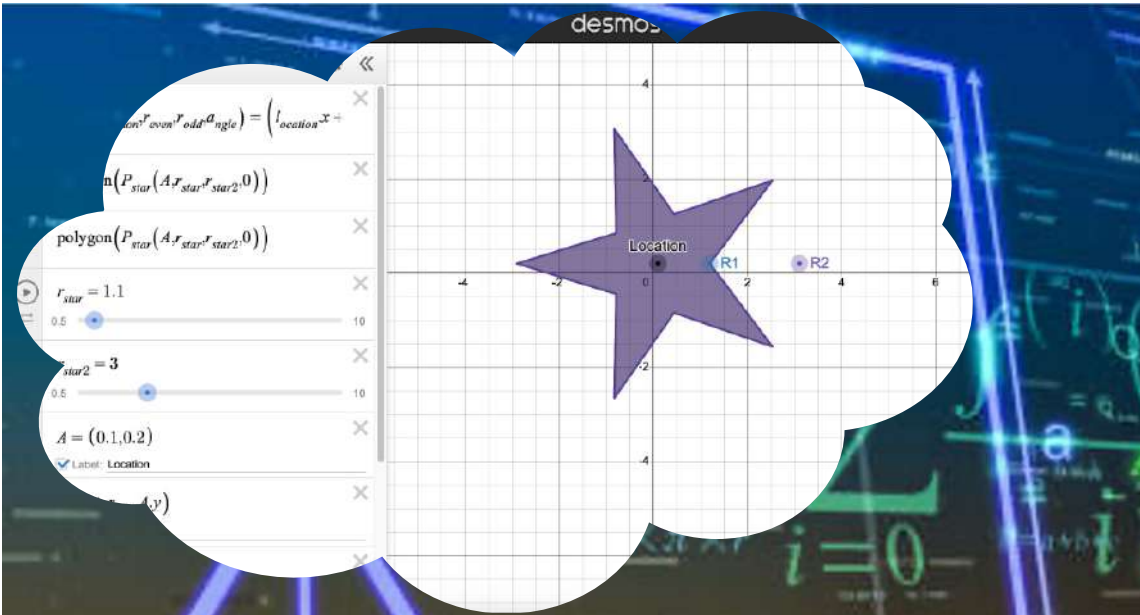
# MATHEMATICS INTERHOUSE COMPETITION FUNCTION FEST

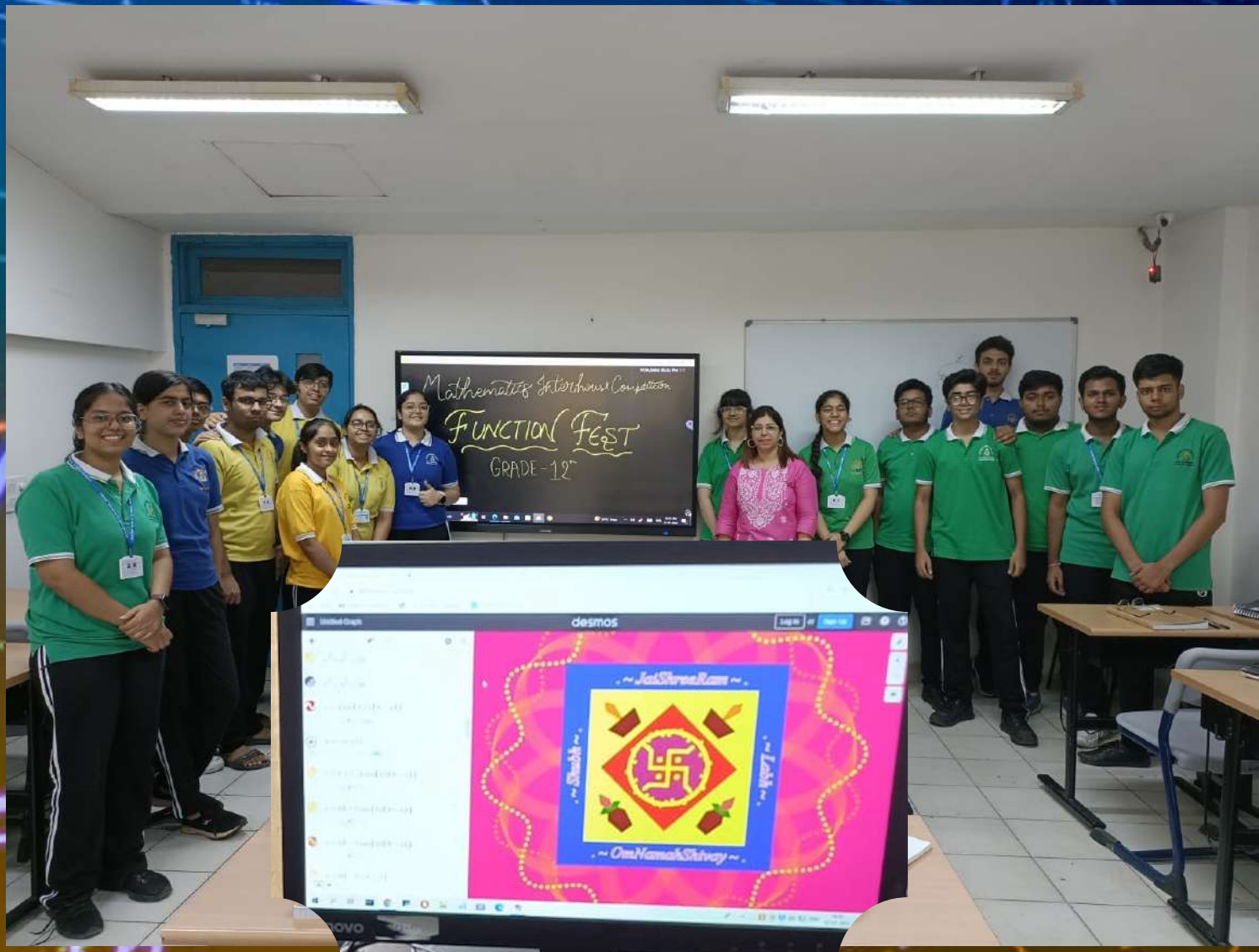
31/07/2023

**Celebrated Graphical Brilliance in  
Grade XII at JAYPEE PUBLIC  
SCHOOL, NOIDA**

*This competition was a resounding success, a testament to the students' dedication and the school's commitment to fostering academic excellence.*

*We extend our heartfelt appreciation to all the participants.*







Untitled Graph desmos

FRACTAL TREE: by Yash and Bhavika

Respected Ma'am, thank you so much for giving us the opportunity to make this beautiful graph on Desmos.

Mathematics is extremely beautiful and this graph just shows that!

fractal.svg Change Image

Center: (0,0)	Width: 10
Angle: 0 rad	Height: 9.7
Opacity: 1.25	

Control

A = Angle of branching  
 m = move of angle  
 l = level of the tree  
 d = decrease in branch length  
 s = number of splits / branches

T = 0.894



Untitled Graph desmos

9.jpg Change Image

Center: (0,0)	Width: 37.9
Angle: 0 rad	Height: 49.1
Opacity: 1	

$r = 4 \cos(10\theta)$   
 $0 \leq \theta \leq 2\pi$

$r = 3.5 \cos(10\theta)$   
 $0 \leq \theta \leq 2\pi$

$r = 3 \cos(10\theta)$   
 $0 \leq \theta \leq 2\pi$

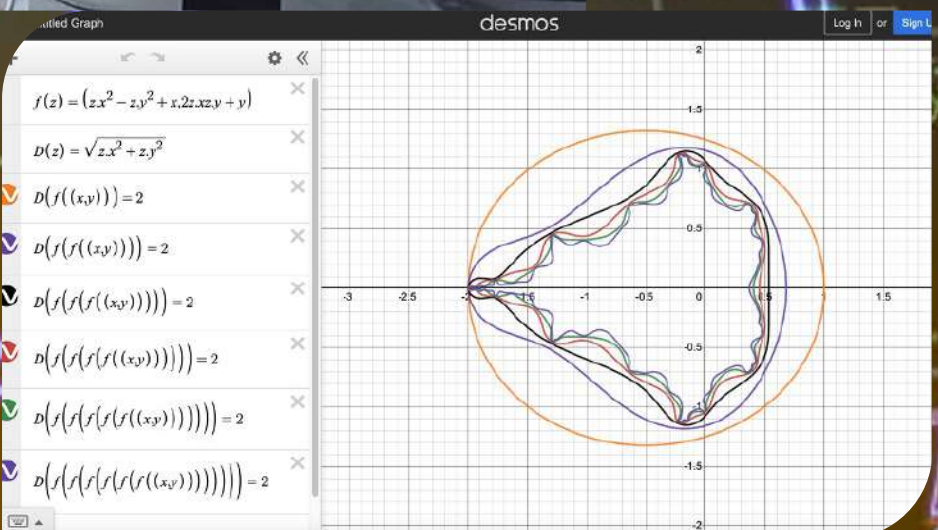
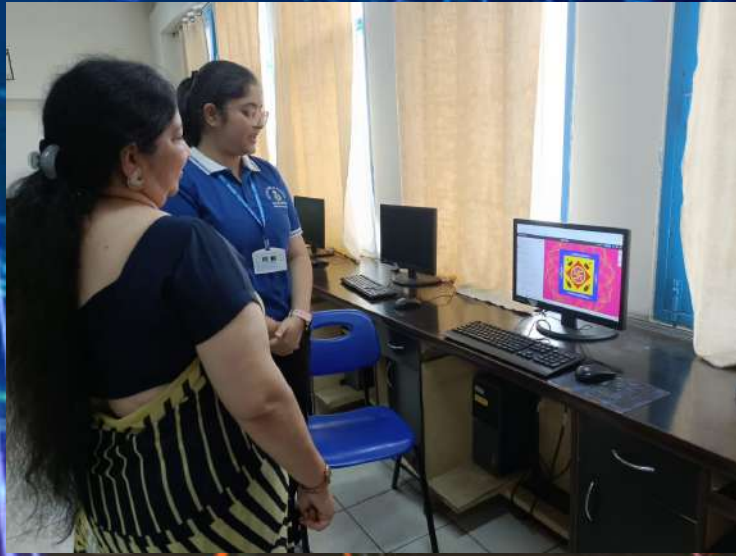
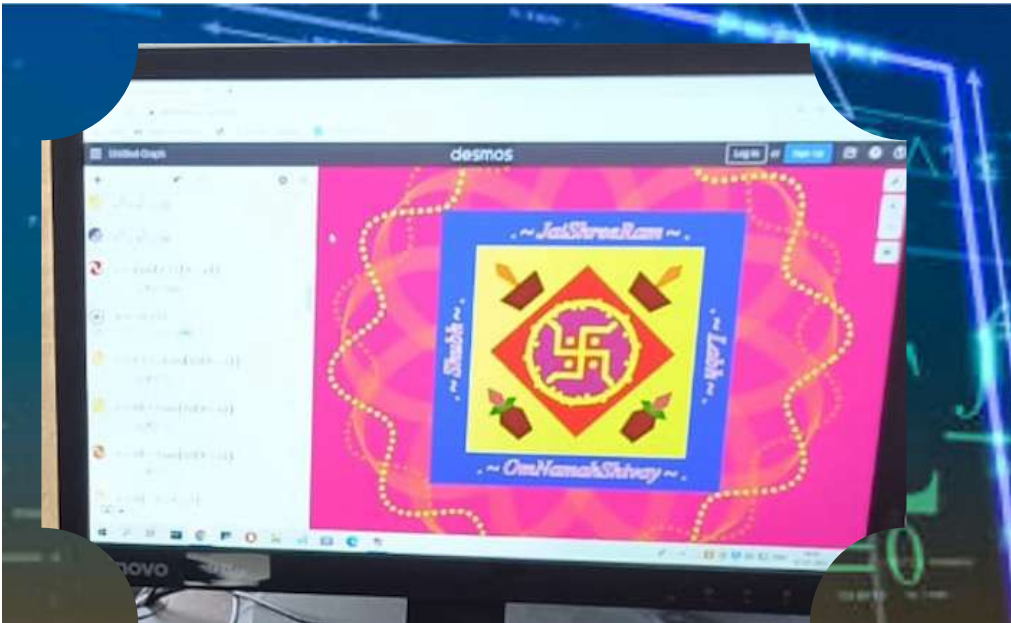
$r = 2.5 \cos(10\theta)$   
 $0 \leq \theta \leq 2\pi$

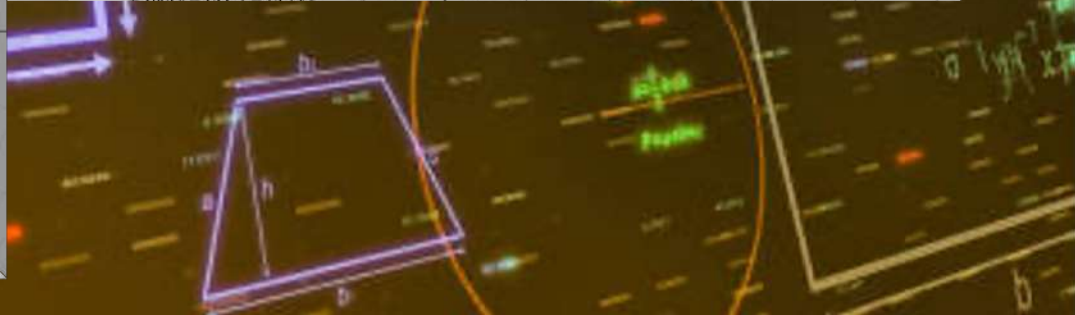
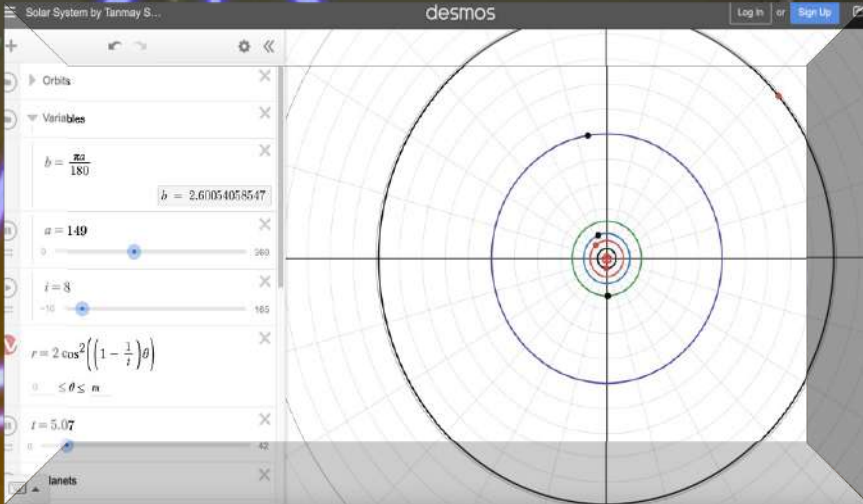
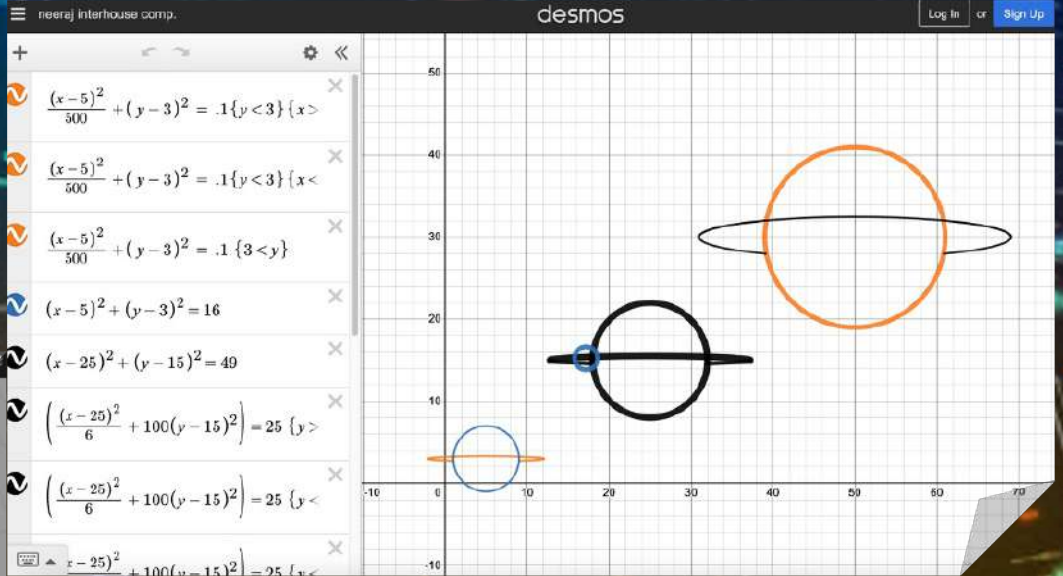
$r = 2 \cos(10\theta)$   
 $0 \leq \theta \leq 2\pi$

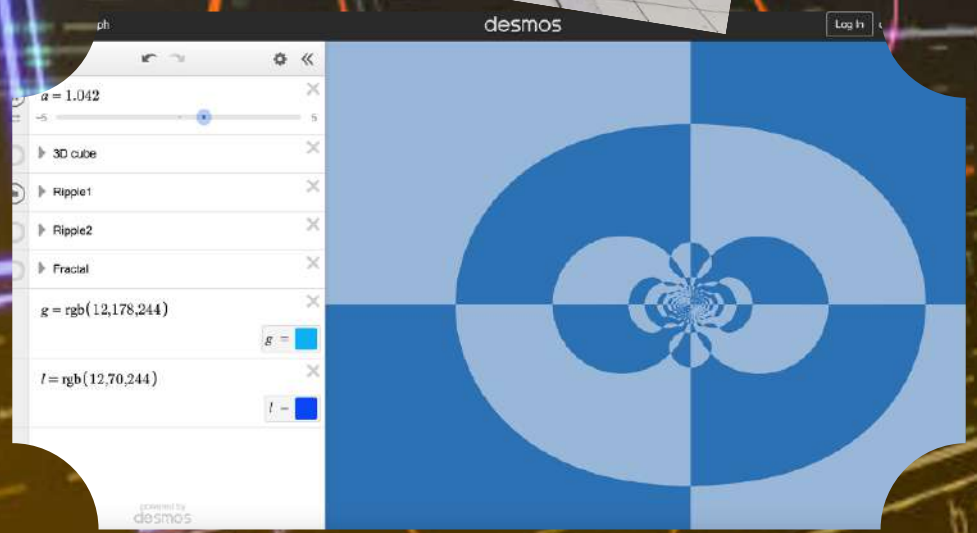
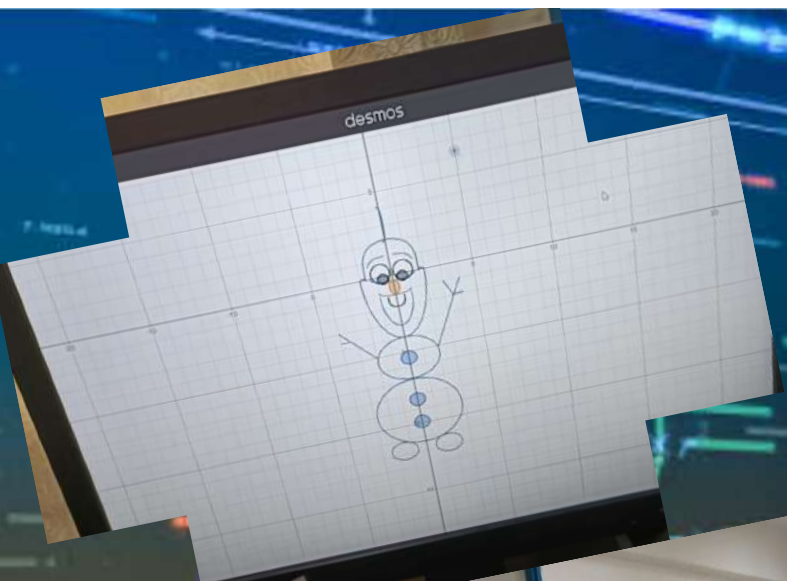
...CULAR DESIGNS BY ... desmos

$r = 5 \cos^2\left(1 - \frac{1}{a}\theta\right)$   
 $0 \leq \theta \leq 10000$

$a = 95$







Congratulations to all the participants for their exceptional efforts in making the event memorable, inspiring and full of learning!