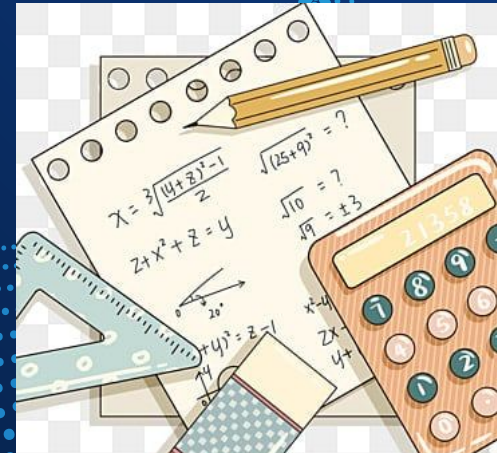


# Math Club



Mandelbrot Fractal



# Welcome!

- ★ Franklin Liu
- ★ Eric Xiao
- ★ Ryanne Ma
- ★ Neel Sharma



Club Advisor:  
**Mr. Snedden**

**Psst... No Attendance for Today**



Meetings every other Tuesday in J210

# What Do We Do in Math Club?

The background of the slide is a solid blue color. Overlaid on this background are several wavy, horizontal lines composed of small, dark blue dots. These lines create a sense of motion and depth, flowing from the left side towards the right. The lines vary in density and curvature, adding a dynamic visual element to the text.

# What We'll Be Doing

- Explore math not typically taught in high schools
  - Previous years: number theory, cryptography, graph theory and computer science
  - We'd also love to hear from you!
- Problem of the Week
- AMCs!
  - competition prep



# AMCs — American Mathematics Competition Series

# AMC 10/12



- AMC 10/12
  - AMC 12 — available for all students up to 12th grade
  - AMC 10 — only students 10th and below
  - offers two exam versions (A & B) on Nov. 10, 16, 2022
    - students can take both versions AND can mix types
- 25 questions, 75 min.
  - 6 pts — correct
  - 0 pts — incorrect
  - 1.5 pts — blank
- both serve as qualifying rounds for the AIME



# AMC Comp. Series



- AMC 10/12
- AIME
  - American Invitational Mathematics Exam
  - top ~5% of the AMC 10 scorers and top ~2.5% from the AMC 12
  - 15 short answer (0-999), 3 hours
- USA (Junior) Math Olympiad
  - $\text{AMC score} + 10 * \text{AIME Score} = \text{INDEX}$
  - top ~250 for each olympiad qualify
  - 6 problems, 9 hours, proof-based

# AMC Comp. Series



- MOP — Math Olympiad Summer Program
  - arguably the most prestigious and most competitive summer program in the U.S.
- International Math Olympiad (IMO)
  - the following year, top 4 students from the MOSP are invited to represent the U.S at the IMO
  - 174 countries (“member states”)

# Why Care?



# Problem-Solving Skills

- problem-solving skills are transferable
- pattern recognition
- build mathematical intuition to apply to other real-world problems
- ... college apps

# Colleges

- Top STEM colleges explicitly ask for your AMC/AIME scores
- optional, but highly recommended
- MIT, Caltech, Carnegie Mellon, Ivies, ...

# AMC Registration



<https://tinyurl.com/mrv3apz6>

## Join the Club



[forms.gle/9oyFy46PnKLwdo](https://forms.gle/9oyFy46PnKLwdoWS7)  
[WS7](#)

## Discord



[discord.gg/jcA6mN4b2f](https://discord.gg/jcA6mN4b2f)