

THE SUMTIMES



A Note from the Editors:

Happy Tuesday, everyone! We hope you all enjoy the 1st edition of the 2023 Sumtimes. This issue is full of March social events, opportunities to get involved in math department extra circulars, and a little bit of our graduate students' lives outside of math. We are happy to be back as your newsletter editors, and we look forward to featuring all of the wonderful people in the math department and all of the amazing things you all do. Make sure to reach out with any newsletter recommendations or suggestions.



Much Love,
Margarita & Jessa

IN THIS ISSUE

THOSE WHO
MATTER MOST

DATES YOU DON'T
WANT TO MISS!

UPCOMING EVENTS

ANOTHER SIDE OF US!



MATH MEMES

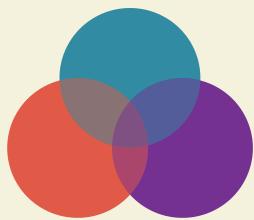
SEMINAR SCHEDULE

YOGA FOR THE BRAIN



Congratulations to
Kitrick & Schuyler
for their New Year's
Eve nuptials!

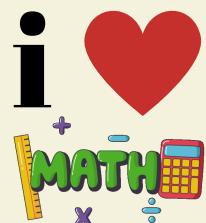




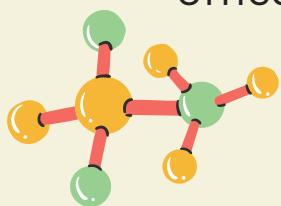
GET INVOLVED!

Would you like the opportunity to refine your public speaking skills and network with people from other colleges and universities in the Midwest? Are you looking for a CV-booster or the chance to inspire undergraduates to go to graduate school? Sign up to give a Heartland talk this semester!

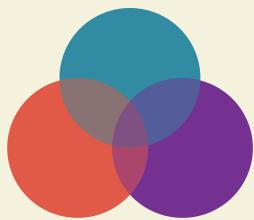
Please reach out to Eddie White for more information.



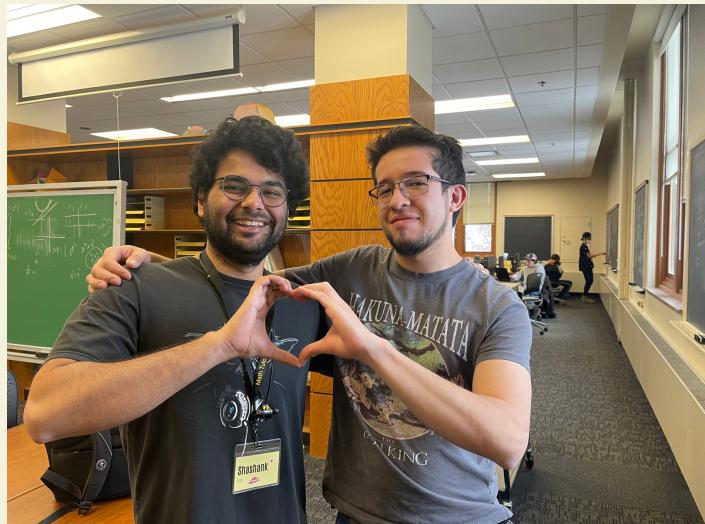
Are you a mathematician looking to hone your skills through applying math to industry and other sciences? Would you like to build community with a group of students with similar interests but who come from a wide variety of mathematical backgrounds? Come join the (Society for Industrial and Applied Mathematics) SIAM writing group every Tuesday in B11 MLH from 8:30am-10:30am to work on your industrial and applied math research. SIAM is also looking for a webmaster to be a part of their board of officers. Please reach out to Nikita if you are interested!



Be on the lookout for information regarding leadership positions for the directed reading program! The directed reading program offers undergraduate students the opportunity to explore mathematics alongside a graduate student mentor, so keep your eyes peeled for ways you can help foster this important relationship!



THOSE WHO MATTER MOST



Shashank & Jose David (above)



Natalie's cat, Midnight 🐱 (above)



Paria & Nandita (above)

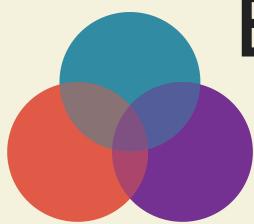


(above) My Valentine this year (and all years hence) is my wife Schuyler. She is a high school English teacher, currently working at Liberty High School in North Liberty. She is an avid reader. Her current goal is 100 books in 2023 and she's already on number 14. Schuyler is also a huge fan of Mario Kart; we play every weekend and we're about 50/50 on wins (though she may put the figure more around 55/45). Also, she really, really likes dogs. I have promised her we will get a golden retriever once we have a yard to support one. Our wedding was "winter elegant" with burgundy and gold as the colors.

- Kitrick

Parker
and his
family,
Madi
and
Beckett
(right)





BIRTHDAYS YOU DON'T WANT TO MISS!

HAPPY
Birthday

Nicholas Cecil

March 4th



Nandita Nair

March 6th



Kevin Del Real Ramos

March 10th



Cody Gilbert

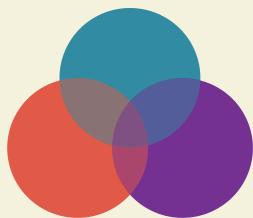
March 11th



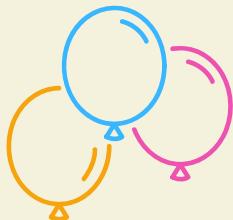
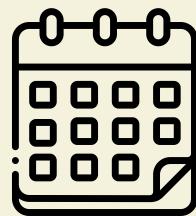
Kitrick Fynaardt

March 24th

Mark Your Calendars!



EVENTS



Cody Gilbert's Defense After Spring Break



Math Graduate Board Fundraiser



Short's Burger & Shine
March 1st 4-9pm



Prospective Student Weekend



Graduate
Student Panel
March 24th

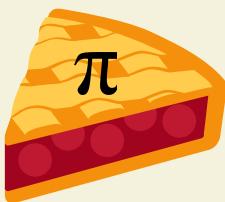
Social
Time
March 24th

Mini-
Colloquium
March 25th



For more information, email Kitrick Fynaardt or Jacob Van Grinsven.

Pi Day Fun Run

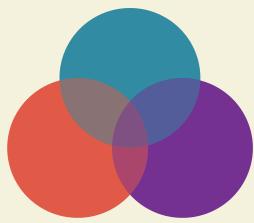


On March 31st at 5:30pm, please join us at City Park where we're celebrating a belated pi day with a 3.14 kilometer run!

More details coming soon!



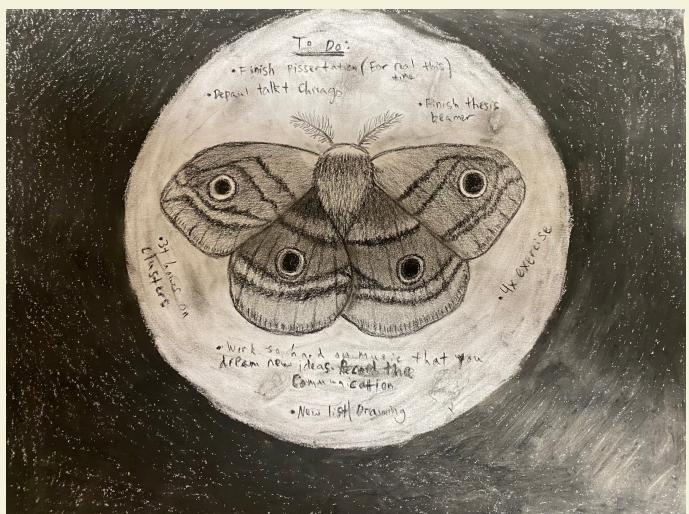
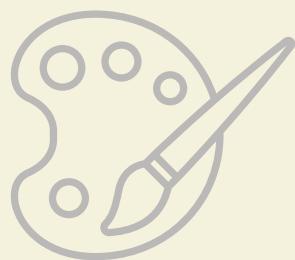
Be there or be square!

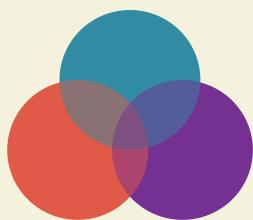


ANOTHER SIDE OF US!

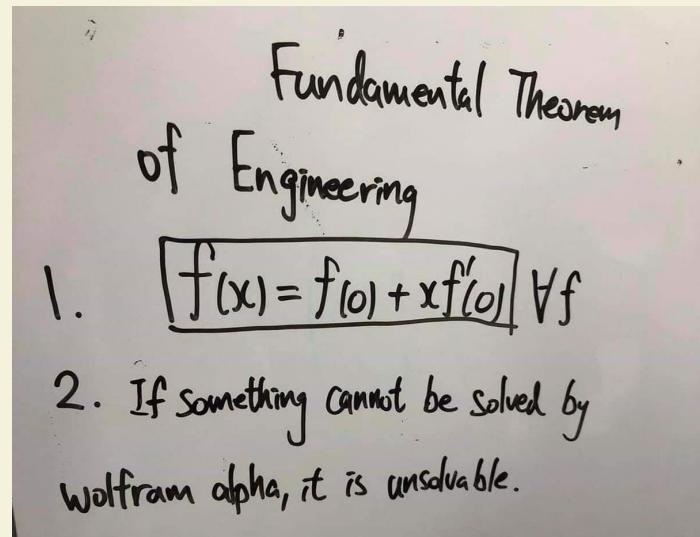
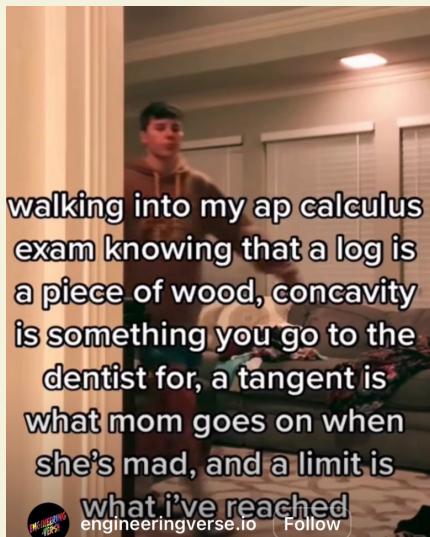


Among our wonderful mathematicians are some marvelous artists.
Do you know who they might be?





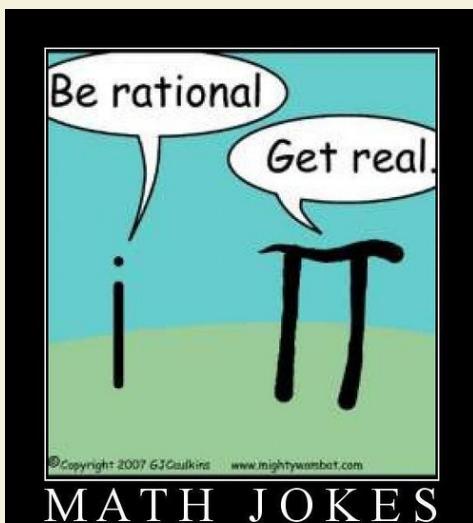
MATH MEMES



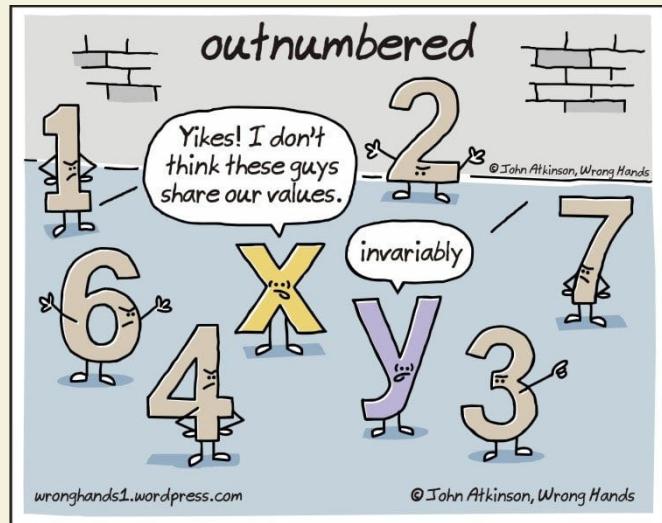
"you have to respect other people's opinions"

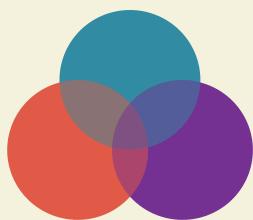
their opinion:

$$(a+b)^2 = a^2 + b^2$$

$$\frac{d}{dx} (e^x) = x \cdot e^{x-1}$$


MATH JOKES





SEMINARS GALORE!



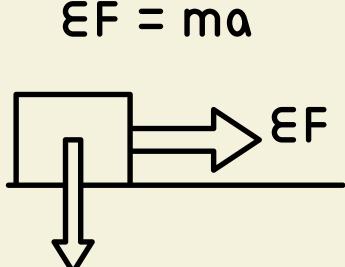
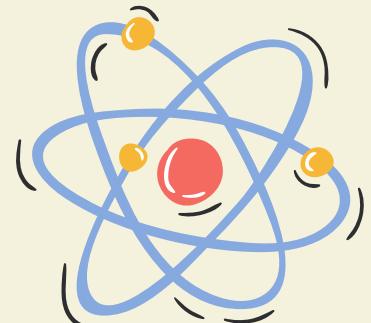
Mathematical Biology

Mondays 3:30-4:30 pm



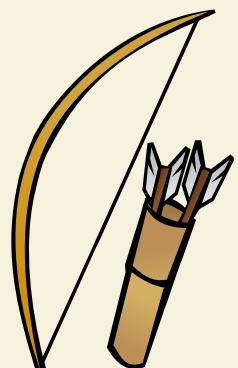
Operator Theory

Tuesdays 1:30-2:30 pm



Mathematical Physics

Tuesdays 2:30-3:30 pm



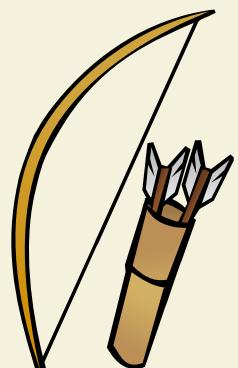
Algebra

Wednesdays 3:30-4:30 pm

$$\begin{aligned} \frac{\partial x}{\partial t} &= \frac{\partial y}{\partial t} = 0 \\ \vec{v} &= (F_x, F_y, F_z) = \frac{\partial F}{\partial x}, \frac{\partial F}{\partial y}, \frac{\partial F}{\partial z} \\ g \text{ and } f &= \left(\frac{\partial^2 F}{\partial x^2}, \frac{\partial^2 F}{\partial y^2}, \frac{\partial^2 F}{\partial z^2} \right), \quad \frac{\partial^2 F}{\partial x \partial y}, \frac{\partial^2 F}{\partial x \partial z}, \frac{\partial^2 F}{\partial y \partial z} \\ \text{Jacobi matrix} &= \begin{pmatrix} \frac{\partial F}{\partial x} & \frac{\partial F}{\partial y} & \frac{\partial F}{\partial z} \\ \frac{\partial^2 F}{\partial x^2} & \frac{\partial^2 F}{\partial y^2} & \frac{\partial^2 F}{\partial z^2} \\ \frac{\partial^2 F}{\partial x \partial y} & \frac{\partial^2 F}{\partial x \partial z} & \frac{\partial^2 F}{\partial y \partial z} \end{pmatrix} \end{aligned}$$

Partial Differential Equations

Wednesdays 3:30-4:20 pm



AMCS

Fridays 3:30-4:20 pm

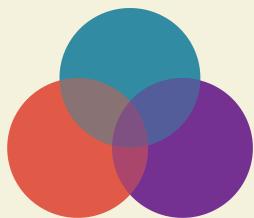
010	01	01001
010	11	11101
101	01	01010
0100	1001	01001
1110	1011	11101
0100	1001	01001

GAUSS

Wednesdays 4:30-5:30 pm

excluding March 1st





YOGA FOR THE BRAIN

If you would like to tickle your brain a bit, try out this puzzle!

Cross Number Puzzle #1

A cross number puzzle differs from a cross word puzzle, in that each field contains a digit between 0 and 9, rather than a letter. The only restriction is that no ‘word’ can begin with a 0.

A	B	C	D	E	F	G
H		I				
J			K			L
M				N		
O	P			Q		
R		S				
T			U			

Ad denotes the word *A down*, *Ca* denotes *C across*, etc.

There is a unique solution, if the following relations are satisfied:

$$Md = Ha+Bd$$

$$Ia = 5 * Kd$$

$$Ed = Ca+Ma$$

$$Ld = 2 * Ua$$

$$Ta = Ad+Bd+Md$$

$$Kd = Ja * Sd$$

$$Nd = Na^2$$

$$Ka = Oa^3$$

$$Od = \text{Multiple of } Ua$$

$$Pa = \text{Multiple of } Id$$

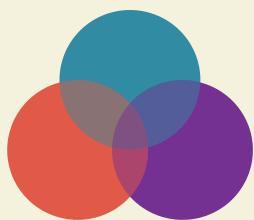
$$Ad = \text{Power of a number}$$

$$Gd = \text{Sum of digits of } Qd$$

Dd and Ua have a common factor

Ra is a palindrome (like 532235)

Fd is the sum of two successive cubes (like 27+64)



PUZZLE SOLUTION

Here is the solution to the puzzle so you can check your answers!

A 6	B 7	C 2	D 2	E 2	F 8	G 2
H 2	G 6	I 3	J 1	K 9	L 5	M 5
N 5	O 8	P 1	Q 6	R 8	S 5	T 9
U 7	V 5	W 8	X 3	Y 6	Z 9	A 8
B 7	C 1	D 9	E 5	F 6	G 7	H 8
I 9	J 0	K 1	L 0	M 9	N 9	O 9
P 1	Q 6	R 0	S 2	T 1	U 4	V 9