

# ENGnews

OCTOBER 17, 2022



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And now, WELCOME BACK TO

# ENGnews

We missed you!

You:



## ENGINEERS BE LIKE

$\pi \approx 3$

$e \approx 3$

$\sin(x) \approx x$

mathNEWS  $\approx$  ENGnews

TENDSTOFORTYTWO

## BICYCLES

AN APPRECIATION

Bicycles are so good that a human on a bicycle is the most efficient animal on the planet in locomotion. Women's suffrage can be linked to the invention of the bicycle. Bicycles are a fantastic mode of transportation. You can ride and park them almost anywhere, they don't consume fuel, there are different types of bikes for different weather or terrain, a great method of exercise, environmentally friendly, and most importantly they're fun. Get yourself a bicycle.



## THE CULT OF VOID WORSHIPPERS

I walked down a hallway one day.  
It was one I had treaded many times before.

There was a door there that I had seen many times.  
But had never wanted to open before.

That day I opened it, don't ask I don't know why.  
I saw them in their dark robes worshiping the flame.

An inferno aching to consume the sky,  
Blazing light reached inside of my anger and shame.

They chanted: "You're not to blame!"  
What happened was written and not by your hand."

"Why that happened and why that will happen,  
It is beyond us mortals to understand."

Horror and disgust flooded me and I tried to flee,  
I slammed the door and thought that I was safe.

Then I realized that there was no door and no hallway.  
The Void Worshippers were inside me.

CYRUS THE GREAT

## TO PURSUITS WE HAVE FORGOTTEN

I wrote my name down  
to try to live forever  
but the paper got tossed in a bin  
and the name got recycled within

I painted my name on a building  
to try to live forever  
but the name was scrubbed  
my immortality snubbed  
I went in search of another

I carved my name in a tree  
to try to live forever  
but the tree grew and grew  
my name soon obscured  
and I watched one day the tree grow sick  
and die, my scar upon it

I engraved my name in stone  
to try to live forever  
but years passed  
and rain fell  
and I watched how smooth the stone had  
grown

I looked to the world around me  
the trees I did not want to leave  
the ground I did not want to lose  
the ruins rose flat around me  
and yet here, here I stood.

I whispered my name to the wind  
to try to live forever  
and it took it like a secret  
and flew far away  
my hopes were up,  
my mission done  
but there were no more ears to hear it!

## N REASONS WHY MATHNEWS IS BETTER

1. mathNews has a coloured title page
2. mathNews has free pizza
3. mathNews has Evan approval
4. Look at this mathNews

**AAQSR**

Editor's note: The author of the above article asked for the font to be in LaTeX CMU Modern. What the heck is that? I have no idea

## J REASONS WHY ENGNEWS IS BETTER

1. ENGnews uses up less paper and coloured ink
2. ENGnews has free zero-calories pizza
3. ENGnews has a dope website (engnews.ca !!)
- <----- 4. ENGnews has this sick poem
5. Look at this ENGnews

**BBRTS**

## N HACK THE NORTH SWAG ITEMS I LIKED

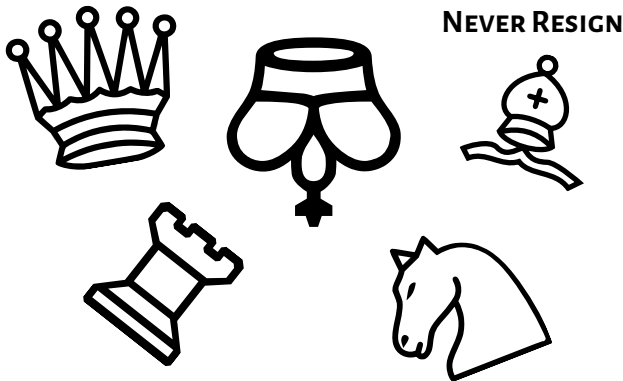
**Appreciation from an unironic HTN 2022 free things enjoyer**

- \* Goose plushie with WATERLOO ENGINEERING tramp stamp
- \* Zoom floodlight, sponsored by RBC
- \* Hack The North umbrella (!?)
- \* XL shirt (it's soooo comfy)
- \* More stickers than I can fit on all my laptops combined
- \* Ethereum pin

**TENDSTOFORTYTWO**

## THIS OPENING LEADS TO A VICIOUS MATING ATTACK

1. a3 a6 2. b4 b5 3. Ra2 Ra7 4. Rb2 Rb7 5. Rb3 Rb6 6. Rc3 Rc6 7. Rc4 Rc5 8. d4 d5 9. e4 e5 10. f4 f5 11. c3 c6 12. Nf3 Nf6 13. Ng5 Ng4 14. Nf7 Nf2 15. Nd2 Nd7 16. Nf3 Nf6 17. N3g5 N6g4 18. Ne6 Ne3 19. Kxf2 Kxf7 20. Kxe3 Kxe6 21. Qh5 Qh4 22. g3 g6 23. gxh4 gxh5 24. Bh3 Bh6 25. Bg4 Bg5 26. Bxh5 Bxh4 27. Bd2 Bd7 28. Be1 Be8 29. Bg4 Bg5 30. h4 h5 31. Bxh5 Bxh4 32. Bf3 Bf6 33. Bh4 Bh5 34. Bg5 Bg4 35. Bh6 Bh3 36. Rxh3 Rxh6 37. Rh4 Rh5 38. Bxh5 Bxh4 39. Bg4 Bg5 40. Kd2 Kd7 41. Kc2 Kc7 42. Kb2 Kb7



## SOME GOOD HONEST MATHS

$$e \times \pi = g$$

$$e^\pi = \pi^e$$

$$\pi^{j\pi} = e^{je} = -\frac{e}{\pi}$$

$$\pi\pi^{j\pi} = -\pi$$

$$10^{-9} = 0$$

$$10^9 = \infty$$

$$0 \times \infty = 1$$

AN ASPIRING  
MATHEMATICS SCHOLAR

## ANOTHER DAY BY THE RIVER

On a windy February morning, a 48" cast iron Rigidware pipe wrench could be seen walking by the river. Upon first sight, there was not much that could be said about it except for the fact that it was enormous.

Upon more careful observation, you could see that it was carrying a photograph and an XL Magnum condom. Perhaps it was on its way home from a night of heart-aching memories. Perhaps it was thinking about someone special from long ago. But you really couldn't tell as it was facing away, looking in the direction where the water gently flows to embrace the sea.

And perhaps you thought you saw spots of rust along its handle, but it was also hard to tell as it could just be fancy patterns on the shirt that it had decided to wear. Either way, right beside the water was a bad place to be for a cast iron pipe wrench on a windy February morning. The sun was behind thick sheets of clouds, and the world below was painted a monotone grey. And no one knew what was going through the pipe wrench's mind. All that anyone could really be sure of was the fact that it was indeed enormous, and one wonders just how much sorrow such an enormous pipe wrench could store inside.

EPSILON J

## SHOULD I DRINK TEA?

A DECISION

Hell ya I should, that shit is so good.



# FUNDAMENTAL THEOREMS

**Fundamental Theorem of Arithmetic:**

Every positive integer greater than 1 has only one unique representation as a product of prime numbers



**Fundamental Theorem of Algebra:**

Every polynomial equation of degree n has n roots



**Fundamental Theorem of Calculus:**

The rate of change of the area under a curve f(x) within some interval [a,b] (given that the curve is continuous within that interval) at x=b is equal to f(b)



**Fundamental Theorem of Time Management:**

You always have time for the things that you want to do.

(Consequence of this theorem: When you say that you don't have time to do something, you really mean that you don't want to do that thing, probably because it is not of high priority to you at the moment)



**Fundamental Theorem of Freeway Traffic:**

You will always be in the lane that's not moving.

**Fundamental Theorem of Communication:**

Everyone wants to be heard and understood.

(Implication of this theorem on effective communication: first, really listen and understand what the other person is trying to get across, then, convince them you have understood their point and present your ideas in the context of what they just said)



**Fundamental Theorem of Doing Planks:**

You can always hold it for one more millisecond.



**Fundamental Theorem of Growing Up:**

No one knows what the hell they are doing.

(Implication of this theorem: When someone seems like they know what the hell they're doing, they actually don't know what the hell they are doing)

(Derivation from this theorem: Don't count yourself out of things that you think you can't do, just because you see others seemingly do them so well)



**Fundamental Theorem of Life:**

ahlie

LARRY



^ thats a penis

PEN 15 CLUB MEMBER

## ON GRATITUDE

Sometimes I spend too much of my time and energy on daydreaming about things in the future. I'd be looking forward to the lunch I'm going to eat later or the movie I'm going to see with my friends this weekend; I'd be looking forward for this term to finally be over and the break that would follow. How so little time I have left myself for the present! The actual moment that I'm living in!

I'd like to take this opportunity to really appreciate my present moment – things that are actually happening right now and that I don't have to look forward to. Here are three things I'm grateful for right now:

1. This opportunity to share my thoughts anonymously with other people via a student newspaper. I'm grateful that there is a fun platform for me to write things like this freely
2. My free and independent control over my breathing. I can choose to take a deep breath right now, choose to hold it for some time if I like, and then choose to exhale it at any rate. I can then do it again if I want to, or turn it to autopilot mode so I can focus my attention on something else. I am grateful to have this control over my breathing with no need of assistance
3. I just went to poop and I flushed the poop out of my living space with the press of a button. I am very grateful for my toilet and the infrastructure present for me to be able to do that

How about you? What are three things you are grateful for right now?

1.

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2.

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3.

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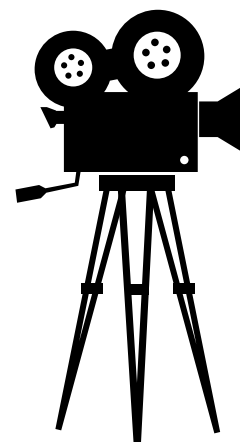
### TURMERIC BEANS

Editor's note: This author's first point of gratitude is not sponsored by ENGnews

## TARANTINO FILMS

### A RANKING

1. Once Upon a Time in Hollywood
2. Inglourious Basterds
3. Django Unchained
4. Kill Bill: Vol. 1
5. Pulp Fiction
6. Kill Bill: Vol. 2
7. Death Proof
8. The Hateful Eight
9. Reservoir Dogs
10. Jackie Brown



KOLSRUD

## STUDY TIPS (CHAPTER 2)

Welcome back to another episode of Study Tips!

You know those times when the prof has taught 5 chapters worth of content and the midterm is coming up and you're feeling good about the general picture of what is being tested? Me neither. The amount and difficulty of the content covered by a test can often be overwhelming and make it very hard to begin studying. In order to study effectively, it is important to first know all the topics that will be tested. In specific, actionable terms, I'm encouraging you to try the following:

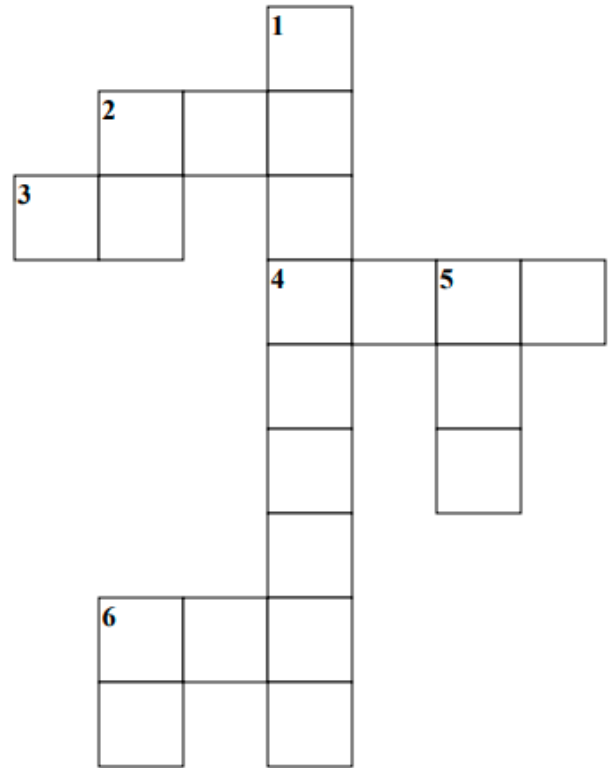
**Begin studying for any test by first making a Topics Summary Sheet. Go through the lecture notes and list all the major concepts that will be tested in this Sheet. Under each major concept, list all the relevant smaller concepts, equations, diagrams, important notes, etc.**

The making of this sheet is, for me, the most helpful part of the studying process, as it achieves the following things:

- Organizes the tangled mess of topics in my mind into a neat physical list
- Lays out all the relevant topics within a few pages so that I feel less overwhelmed
- Reminds me of topics I forgot existed
- Helps me identify the weak areas I know I need to focus studying on
- Also serves as a formula/diagrams sheet that I can conveniently refer to while doing practice problems (can even become the crib sheet if the test allows)
- Provides a solid and easy first step to do when you don't know where to start studying or wants to procrastinate studying

So, what are you waiting for!!? Since you're in engineering you definitely have at least three tests coming up next week. Get started now and I'll see you on the next episode of Study Tips!

LARRY



### Across

[2] A device for the deposition and evacuation of defecation

[3] 71 protons

[4] A type of lemon

[6] A common abbreviation of a city in southern Ontario

### Down

[1] WATER WATER WATER

[2] A cool surname of Chinese origin

[5] A cool first name of French/German origin

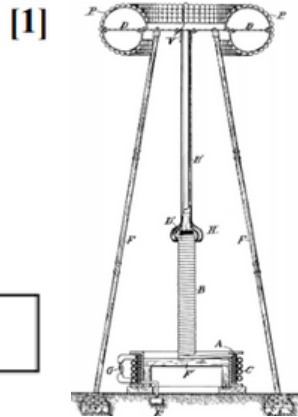
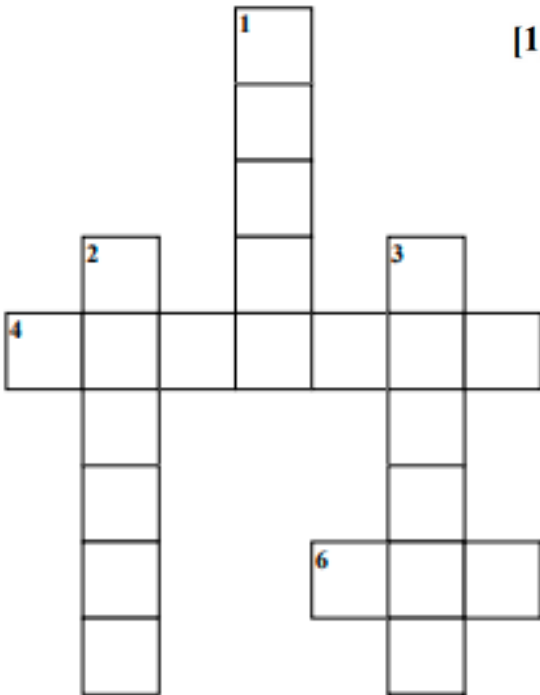
[6] The acronym of a university situated in Sudbury, Ontario

## ANOTHER DAY AT THE DINER

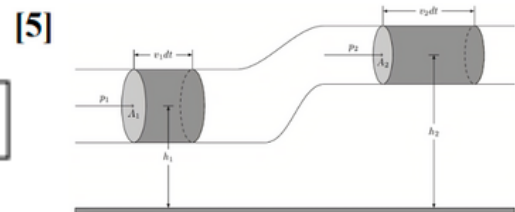
Two ATSAMV71Q21 microcontrollers walked into the diner. One of them ordered a medium rare steak sandwich with onion rings on the side, and the other ordered a bowl of eternal tranquility. The waitress brought them a medium rare steak sandwich with onion rings on the side and a bowl of Mediterranean soup. Although it wasn't what the microcontroller was hoping for, it enjoyed the soup as best as a microcontroller could.

EPSILON J

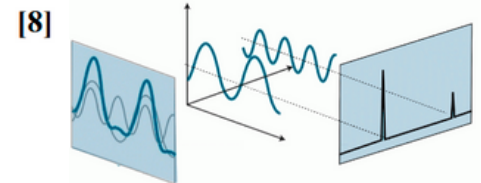
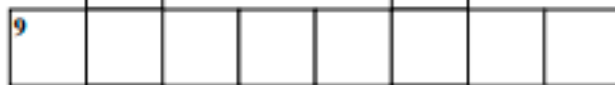
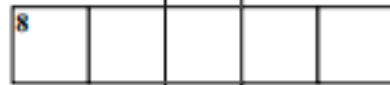
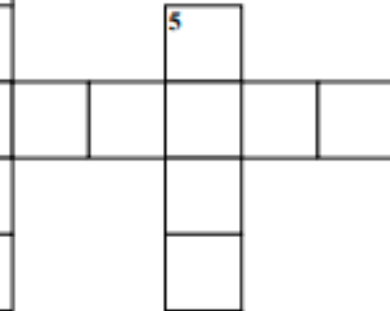
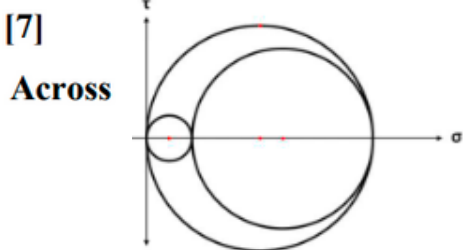
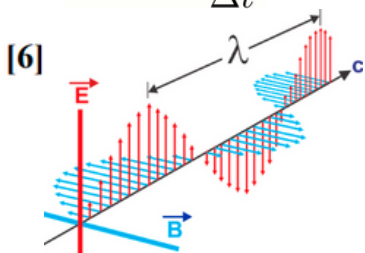
ENGNEWS CROSSWORDS!!



[3]  $X(s) = \int_0^{\infty} x(t)e^{-st} dt$



[4]  $\mathcal{E} = -N \frac{\Delta\Phi}{\Delta t}$



[9]  $\ln \frac{P_2}{P_1} = \frac{\Delta H_{vap}}{R} \left( \frac{1}{T_1} - \frac{1}{T_2} \right)$

**HEY YOU!! YES YOU!! PLEASE READ ME**

CAN YOU BELIEVE YOUR EYES???? ARE YOU SEEING THE ABSOLUTELY INSANE COVER ART ON THIS ISSUE?????????!!?!?!?! DO YOU WANT TO SEE YOUR ART FEATURED AS THE NEXT ISSUE'S COVER!!!!?!?!?!?!? SUBMIT YOUR COVER ART AT THE COVER ART SUBMISSION FORM HERE!!!!!!! ---->

Also, if you enjoyed this issue of ENGnews and want to add your voice to the next one, you can submit your articles at the Article Submission Form found on the same website as well :)

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