

# math NEWS



Volume 116, Issue 1  
Friday, May 13, 2011

**lookAHEAD****mathNEWS**

May 13	Issue #1 hits newsstands
May 23	Not a production night #2
May 24	Production night #2 actually happens
May 27	All hail Issue #2!

**Math Faculty**

May 13	Course add deadline
May 20	Course drop deadline (no penalty)

**MathSoc**

May 10-12	Office training (check site for times)
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**CECS**

May 14	Job posting opens
May 20	Job posting opens again
May 24	Job postings close
May 25-31	Employer interviews happen

**Misc**

May 18	International Museum day
May 20	Go eat some chocolate. Why? Because it's chocolate.
May 23	Victoria Day (no class)
May 25	Nerd/Geek Pride Day
May 28, 2010	Gary Coleman died
May 32	Doesn't exist
July 1	Canada Day

**Notice from MFCF***Undergrad Mail Moved to IST mailservices*

On Tuesday April 26, Math undergrad mail service was transferred from MFCF's mail.student.math server to IST's mailservices system. Advantages include increased quota for your mail and easy access from anywhere using IMAP or web-based mail clients. For details on this, please see the Math undergrad web site at <http://www.student.math.uwaterloo.ca/> or the Announcements page at the MFCF web site <http://www.math.uwaterloo.ca/mfcf/>.

MFCF

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The editor(s): Will Morrison (ConcealED), Harrison Gross (GroovyED), Jeff Bain (CorruptED), Michelle Conway (ConED), Sacha Koohgoli (!ED)

**mastHEAD**

Hello my dear fellow mathies! As a pleasant way to start the term this time around, we got to go through the only real obligation we have in this democracy, election time. We all voted, or forgot to vote, and saw what we ended up with.

In a somewhat surprising, and yet not surprising, turn of events we were given a Harper majority. Some have derided this as "Goddamn what the hell", and others have praised it as "And now my evil plan is coming to fruition", but as always *mathNEWS* takes our non-partisan (Except for officially supporting the Rhino party as laid out in one of the top secret hidden documents in our office) stance.

However, many of our writers do not, and I'm sure they've got their own varied and rational response, and so we come to this week's *mastHEAD* question: "How do you plan to welcome our new Conservative overlords?"

snippet("By making WWHD (what would Harper do?) brackets"), Meaningless Quips("R2-45. They are, after all, fair game"), (define this (not cool)) ("Infect Harper with honed fabulotis ( aka "The Gay")"), Blueberry Muffin ("sudo apt-get install coalition"), Zethar ("Ostracization"), waldo@<3.LE-GASP.ca ("with a slow clap"), ¬perki ("Heil Harper"), ConcealED ("Double Downs"), ConED ("Release Cows on Parliament Hill"), !ED("Execute Order 66")

CorruptED ("A cheerful ditty with some tips on making Steve look less like an android")

**MathFOC Sez**

Do you lie awake at night wondering why you are not yet a math orientation leader? If so, perhaps you should email [mathfoc@gmail.com](mailto:mathfoc@gmail.com) telling us of your dilemma and maybe you can become a PHENOMENAL black tie leader.

If, instead, you find that you daydream about the wonders of math orientation and your involvement, just a reminder to do OLT and read the blog :)

<3 MathFOC 2011  
Gee, Heather, Jesse

**Second Call for Papers***From The Waterloo Mathematics Review*

*The Waterloo Mathematics Review* is a triannual journal of mathematical articles written and edited by undergraduates. Its contents are intended for advanced undergraduates pursuing mathematics both at the University of Waterloo and across Canada.

The *Review* is accepting papers authored by undergraduates across Canada for the second issue. Papers should be of interest and accessible to the undergraduate population, and may cover any topic within mathematics, original research or not. Details on the submission process are available on the submissions page (<http://mathreview.uwaterloo.ca/submissions.html>). Papers must be submitted by May 23, 2011 for consideration for inclusion in the issue.

Edgar A. Bering IV  
Eeshan Wagh  
Frank Ban  
co-Editors-in-Chief

[editor@mathreview.uwaterloo.ca](mailto:editor@mathreview.uwaterloo.ca)

## VPA Sportcoat Sez

Welcome, fellow mathies, to spring term! You have made it through the second week and now have a pile of assignments, and no tan to prove it. This term has a lot to offer in terms of academic revisions and initiatives to serve you better, driven both by MathSoc and Faculty. Currently we are involved in discussions regarding revisions to the MATH135 course content and format, Co-operative Education/Jobmine revisions, and many more. As some of the projects have just begun, available details are currently few and far between. It is my intention, however, to regularly update you, the Mathematics Faculty student body, as information becomes available: stay tuned.

Though many, if not all, of our directors have been appointed and ratified by Council, fear not, there are still plenty of opportunities to get involved. We are always looking for an enthusiastic office worker or two (or three, or five, ten...  $n$ , where  $n > 0$ ) as well as volunteers to help run specific events throughout the term. Drop by MathSoc sometime to find out how.

MathSoc VPA  
Bryanne Pashley

## Roast Goose with Fruit Stuffing

*No geese were wasted in the creation of this recipe*

As many of you have noticed, there are many large and angry geese running around on campus. Here is a goose recipe. It's not that we're suggesting anything, but we felt that it would be useful to have. We know it's not Christmas season, but geese are more common right now anyway.

Enjoy!

### Ingredients

- 2 medium navel oranges
- 4 cups bread cubes, toasted (about 6 slices bread)
- 1 large apple, peeled, cored, and chopped, about 1 cup
- 1/2 cup golden raisins
- 1/2 cup chopped pecans
- 1 teaspoon salt
- 1/2 teaspoon ground nutmeg
- 10 to 12 pound goose

### Preparation:

Peel and section the oranges over a measuring cup; reserve 2 tablespoons of juice. Dice oranges. In a large mixing bowl, toss together bread cubes, diced oranges, chopped apple, raisins, pecans, reserved orange juice, salt, and nutmeg. Cover and let stand at room temperature for 60 minutes; toss again.

Stuff body cavity of goose. With a sharp fork, prick goose legs and wings all over so excess fat will be released while roasting. Do not put any additional fat on goose.

Place goose on a rack in a shallow roasting pan. Roast at 325° for 3 3/4 to 4 1/4 hours, spooning off excess fat from time to time. Internal temperature should register about 180°.

Roast goose serves 4 to 6.

Source: <http://southernfood.about.com/od/christmasfood/r/blxm158.htm>

## Come to the 2011 CUMC

*Travel subsidies available*

On behalf of the organizing committee of the 18<sup>th</sup> Canadian Undergraduate Mathematics Conference it is our pleasure to invite you to attend. The conference will be June 15<sup>th</sup> to 19<sup>th</sup> at Laval University, in Quebec City. All University of Waterloo mathematics students are invited to attend.

The CUMC is an annual gathering of undergraduate students interested in mathematics and related fields, such as physics, statistics, economics and computer science. It is the largest event of its kind in North America and attracts each year more than one hundred participants.

This conference is a unique opportunity to meet fellow students from across the country, encounter new areas of mathematics, hear renowned keynote speakers from a variety of disciplines and even give a mathematical talk on a topic of your choice (which is encouraged, but not required). It is also a chance to explore Laval University and Quebec City.

The Mathematics Endowment Fund and Faculty of Mathematics are subsidizing the travel and lodging costs of undergraduate mathematics students attending the CUMC. Subsidies are limited and available on a first-come first-serve basis. To sign up contact the trip organizers at [cumc2011@mathsoc.uwaterloo.ca](mailto:cumc2011@mathsoc.uwaterloo.ca). To register for the CUMC <http://cumc.math.ca/2011/>.

Edgar A. Bering IV  
Ian L. Charlesworth  
[cumc2011@mathsoc.uwaterloo.ca](mailto:cumc2011@mathsoc.uwaterloo.ca)

## WatSFic Sez

Hello everyone, and welcome to a new term of events for the University of Waterloo Science Fiction and Fantasy Club. First off, if it is still Friday when you're reading this, come and check out our booth in the SLC for FedS Clubs Day.

First thing is this Saturday, May 14<sup>th</sup>, we are running our tri-weekly board games day in MC 3001, the Comfy Lounge (now actually comfy). We are also showing some movies in PHY 150 on Wednesday, May 17<sup>th</sup>. Which movies? We'll tell you once we figure it out! If you come out to our meeting in MC 1056 at 6 PM that night. If you want to find out more information, check out our website at <http://www.watsfic.uwaterloo.ca/>, where you can also sign up for our mailing list.

A Dungeons and Dragons 4<sup>th</sup> Edition game is being run by Living Forgotten Realms each Friday at 7:00 pm in MC 2054. New players are always welcome. If you are interested you can join their Yahoo group, [http://games.groups.yahoo.com/group/LFR\\_UWaterloo/](http://games.groups.yahoo.com/group/LFR_UWaterloo/), to receive ongoing announcements. Players are asked to sign up for games at our Warhorn site <http://warhorn.net/WaterlooRPGA/> so they know how many people will be attending and so they can have enough judges. They are trying something new this term which is a Pathfinder Society game on the first Friday of each month. If there is enough interest they will look at scheduling more Pathfinder games.

University of Waterloo WatSFic Magic will also be running various events on Tuesday nights and Friday nights. They can be found on Facebook or Google Groups linked to on WatSFic's website if you wish to find out more information.

## Rainbow Mathies 8

### *How the Harper Majority Will Affect the Queer Community*

Hello to all you wonderful mathies here to enjoy a summer on campus. If you have paid any kind of attention to any source of Canadian news, you probably heard that the Conservatives had smashed essentially every prediction made about the election result and secured themselves a full four year stay in the House of Commons. Consider the nature of this column and it can be fairly easy to see how I might feel about this, but that's neither here nor there. What is here, though, is that our new majority Government does not have the best history when it comes to supporting the queer community. This article will take a look at this history as it relates to a number of current key issues, and I will make some (hopefully mostly incorrect) predictions how they may be handled by our legislators over the next four years.

The first issue, and probably most contentious of current issues I'll discuss today, is that of Bill C-389, affectionately known as the Trans Rights Bill. This bill would essentially amend the Criminal Code and the Canadian Human Rights Act to extend many of the protections offered by these laws to include transgendered individuals along with other marginalized groups. Before the election, despite Harper's strong objections to the bill, it managed to pass three readings and was on track to be considered by the Senate. When the election was called, the bill was dropped from the docket like all other legislation pending re-introduction to the House. Bill Siksay, the MP who originally introduced the bill, has since retired from politics and no other member has expressed interest in resurrecting the bill. This kind of situation will usually result in the death of an otherwise successful bill, but the future for C-389 seems even more grim. Even if the bill is reintroduced to the House, only six conservatives of 132 opted to support the bill the last time it was voted on. The NDP and Bloc unanimously supported the bill, and 7 Liberals dissented from the party's support. Happily, the majority of these 7 Liberals did not return to the parliament floor this session, but at the same time I'm skeptical a Conservative majority will have enough dissenters to allow the bill through. Even if they do, the bill has yet to clear the Conservative-dominated senate, where it was originally projected to fail if an election didn't beat it. As a fellow Canadian, I feel nothing but sympathy for our transgendered citizens whose basic human rights are not considered valuable enough by our Prime Minister to actively stifle this bill.

In 2006, after a failed motion to re-open the debate on same sex marriage, Harper said that he considered the issue closed. In an interview during the most recent campaign he reaffirmed this commitment. Of the many promises that Harper has broken in the past, I feel this will not be one of them. This doesn't mean that he has started approving of the concept; Harper is still a proud member of many anti-same-sex marriage groups. Still, I proceed today confident that my ability to marry whatever mature person I happen to fall in love with be preserved over the next four years.

The Conservative government hasn't usually been avid supporters of funding for social issues. This is especially true when it comes to HIV prevention and health programs. AIDS organiza-

tions around the country, including the AIDS Committee of Cambridge, Kitchener, Waterloo and Area, are making tough decisions on what services it needs to cut to help deal with harder-to-acquire funding. His government has decided these funds are better placed in valuing law enforcement and punishments. These policies fly into the face of universally accepted, science-based drug policies which conclusively demonstrate that efforts focusing on harm reduction, health support, and social programming are the most effective way of managing the HIV epidemic. Keep in mind that HIV, while a horrible reality facing many queer-identified individuals, is in no way a queer-specific issue. Straight-identified women and Aboriginal communities are the two fastest growing groups becoming affected by the disease. Effective programs, such as educational and outreach initiatives and needle-exchange centres, are at risk of dying due to Harper's constant funding cuts in these areas.

Now, don't get me wrong. There has never been a better time to be a queer-identified or queer-supporting youth, especially in Canada. Our country has made some amazing progress, but now is not the time to be taking crucial steps back. If you, after reading this article or being motivated by any other means, feel that you don't like the direction your parliamentary leaders are taking, I urge you to contact the MP of whatever riding you voted for. The information for contacting Peter Braid, the MP for Kitchener Waterloo can be found below, or you can Google "Contact my MP" to figure out how you can do so.

Peter Braid  
House of Commons  
Ottawa, Ontario  
K1A 0A6  
Telephone: 613-996-5928  
Fax: 613-992-6251  
E-Mail: [braidp@parl.gc.ca](mailto:braidp@parl.gc.ca)

Let me sign off by saying that Harper promised in this victory speech on election night to represent all Canadians in his majority, including the over 60% who did not vote for him. Lets make him keep his word. If you are queer identified, and are looking for someone to talk to or for supportive allies, there are always resources available to you. You can learn more about GLOW and its offerings, including a phone line at [www.knowyourglow.ca](http://www.knowyourglow.ca). Counselling Services is always available to you; their offices are open 8:30-8MTTh and 8:30-4:30WF, located in Needles Hall across from Student Awards and Financial Aid. If you need support and assistance immediately, you can call the Waterloo Crisis Center at 519-745-1166. If you'd feel more comfortable speaking with someone from a queer specific service, please contact the GLBT Youthline at 1-800-268-9688.

Join me next issue when I take a deeper look at internalized homophobia and how deep of an effect it can have on our social interactions, queer or not.

(define this (not cool))

With files from Globe and Mail, Vancouver Sun, and AIDS Action Now.

## deanQUESTIONS

Hello everyone. After interviewing the Dean of Mathematics, Ian Goulden, last term we thought it would be a good idea for a continuing feature. We are taking submissions for the new **deanQUESTIONS** section. If you wish to submit your questions to the Dean, please submit them to the **BLACK BOX** or to our email at [mathnews@student.math.uwaterloo.ca](mailto:mathnews@student.math.uwaterloo.ca) by Wednesday, May 18<sup>th</sup>. Now, on with the questions!

**mathNEWS:** What is your favourite room in the MC?

**Dean:** My favourite is the colloquium room MC 5158, with its floor-to-ceiling blackboards and portraits of former deans scowling from the wall at the back of the room. Lots of history there, and memories for me personally, and I'd like to see it refurbished to provide a great facility for guest speakers.

**mathNEWS:** Are there any professors still left over teaching at UW from your time as an undergrad or grad student?

**Dean:** I was an undergraduate in Math from 1972 to 1976. As I recall, current professors who were here then were Professors Brown, MacKay, Matthews in Stats/ActSci, Professors Munro, Tompa, Wong in CS, and Professor Zorzitto in Pure Math. Among these, I think that Ian Munro arrived first. I was fortunate enough to have both Steve Brown and Jock MacKay as instructors, in separate fourth year statistics courses.

I was a graduate student from 1976 to 1979. As I recall, current professors who arrived during those years were Professor Taylor in CS and Professors Davidson and Stewart in Pure Math.

**mathNEWS:** What do you think was the hardest course you took while doing your studies here at Waterloo?

**Dean:** In fourth year, I took MATH 460A from David Jackson in C&O. This was a course in Enumerative Combinatorics, using generating functions to produce compact proofs of cool combinatorial results. I can clearly remember being almost completely bewildered for more than half the term, and wondering if I would ever understand any of this strange approach. I persevered, and went on to research in this area, with David first as thesis supervisor, and then as longtime coauthor. As a master's student, I took MATH 932 from Greg Bennett in Stats/ActSci, in Multivariate Analysis. This was wonderful and powerful, a comprehensive workout using algebra and multivariate calculus in a deep way. Over the years, both David and Greg have become very good friends as well as colleagues.

## Genius Bowl

*So what if it's run by engineers?*

Do you like trivia? Prizes? Candy? Making up silly answers? How about some friendly inter-faculty rivalry? Come out to Genius Bowl, in teams of up to six!

Time and location TBA, so check <http://engsoc.uwaterloo.ca> for announcements. (Thanks, publication deadline.) Signup sheets will be on the Orifice (EngSoc office, ie CPH 1327) door.

No, this is not an engineering invasion into *mathNEWS*. I'm a mathie and a semi-regular writer. In fact, from another perspective, this could be a mathie invasion into EngSoc... but I won't confirm or deny that.

Ming-Ho Yee  
1/4 Genius Bowl Director

## In Other News

*The new column that brings you actual news. As if anyone cares about ACTUAL news*

In campus news, a bunch of geese are nesting near the SLC, so the area has been blocked. In other words, if you can't find a cheap sublet next term, just bring your goose costume and a few eggs and you can camp out on campus for free.

In regional news, 3 suspects have been arrested on suspicions of arson regarding that crazy fire at university plaza a few terms ago, destroying Mel's Diner. To the disappointment of math students, police have confirmed that NONE of the suspects are Charizard, flower-powered Mario, or Scorpion from Mortal Kombat.

In national news, Stephen Harper's Conservative party has won a majority government, with the NDP, lead by Jack Layton, gaining a historically large number of opposition seats. Liberal leader Michael Ignatieff, the election's big loser, has accepted a position at the University of Toronto. Certain people at the University of Waterloo may or may not had this to say: "Ha ha! U of T are losers!"

In international news, Osama Bin Laden, the person responsible to the horrible 9/11 attacks, has been killed by the US army in Pakistan. This debunks rumours that he's been in hiding on the 7th floor of the MC together with Michael Ignatieff, Waldo, Elvis, Michael Jackson, and Carmen Sandiego.

In entertainment news, the Sony PlayStation Network has been down due to a security breach caused by a hacker attack. Personal information and credit card numbers have been stolen. The network was supposed to be back up, but then it got down again, and nobody really knows what's going on with it. Waterloo Math students are very frustrated that they can't play their PS3 online anymore and might actually have to do some school work ahead of time because they don't have anything else to do.

In sports news, soccer legend David Beckham was involved in a car crash, but escaped unharmed. Editors say "Hey, shouldn't this be traffic news, not sports?" In response, I have to admit I don't know anything about sports. Hey, I'm from the Math Faculty, what do you expect? *[We didn't actually say that. — Ed.]*

In other news, I had to buy a new mattress, because I'm subletting a room this term and the guy who left his furniture left me a really crappy, old mattress that was quite painful to sleep on. The new mattress has been delivered and is a noticeable improvement. If you ever sublet a furnished room, I recommend you check the mattress quality ahead of time.

And that's it for *In Other News*. If you have any comments or questions, and if there are any news topics you'd like the Orange News Editorial Team to tackle, please contact us at [orange.crush.uw@gmail.com](mailto:orange.crush.uw@gmail.com). Thank you, and have a good fortnight.

Orange Crush

## Public Service Announcement:

This layout was brought to you by the letter L (upper case and lower case), the letter t, a square and the Tetris theme song.

Thank You  
!ED and ConcealED

# Interview with the CosMATHpolitan covergirl

*Revealing her deep and dirty secrets*

With the wildly successful issue of CosMATHpolitan last week, *mathNEWS* has caught up with the lovely CosMATHpolitan covergirl and asked her some questions about her experience.

mN: Any offers by other magazines to be photographed?  
Covergirl: By Mathies Quarterly, and the British hunting magazine Horse & Hound.

mN: Do you feel like a celebrity?  
Buxom Wench: I have just as much hard of a time convincing celebrities to get me within feeling distance as before.

mN: Most useful CosMATHpolitan article?  
Sultry Seducer: How to meet nerdy guys

mN: What did you do before you were discovered by CoMATHpolitan?  
Femme Fatale: Once upon a time, S.P. had a life. Then she got a degree in Computer Science.

mN: Favourite position?  
Desperate Coder: Between chair and keyboard.

mN: So what have you been doing to drive back the horde of lonely mathies?  
Wild and Mathie: I have an army of bear-a-troopers on standby.

mN: Do you feel enlightened after the photo shoot?  
Sassy Lass: No, because I'm wearing more clothes now than I did at the shoot.

mN: Do you think Pinky stole your spotlight?  
Lady Longlegs: No, the lighting crew were nice to me.

mN: Other than pink, what is the best colour for spring?  
Pinky's Lover: Shirtless, with a 2007 pink tie.

mN: What is your favourite part of Djibouti?  
Miss Carolina: I think that world peace is very important so that all of the children will never be hungry and let them eat cake.

mN: Again, what is your favourite part of Djibouti?  
Sexybot34234: PENIS!

*mathNEWS* Editors

# Tim Hortons no longer serving goose on a bagel

*We're not quite sure why, as we thought it was delicious*

# profQUOTES

*Humor all year round!*

We're going to use a lot of things that you learned in CS 251, but it's a well known fact that no one learns anything in CS 251.

Cowan, CS 452

The only thing we are going to do with the x86 architecture is forget about it.

Cowan, CS 452

We will be studying combinatorial analysis... which is counting things.

Broadbent, MATH 239

(looking at broken clock) Oh, it's 2:30! I have 14 hours to go.

Wang, MATH 213

(looking at class) When I look at my dinner table, it looks like this.

Wang, MATH 213

Prof: What's your name?

Student: Michael.

Prof: That's my brother's name. Never got along with him.

Wang, MATH 213

If I make a mistake, class is cancelled.

Wang, MATH 213

Engineers are lazy.

Wang, MATH 213

(the day after the election) How many of you are Leafs fans? I bet you voted Liberal.

Wang, MATH 213

Profs are like the scum of the earth.

Wang, MATH 213

Now I'm going to write two little letters that strike fear into the hearts of all engineering students: pf.

Wang, MATH 213

As an engineering student, you might ask "Why do I need to pf things?"

Wang, MATH 213

I think society is racist to large families. Wait, that didn't make sense.

Wang, MATH 213

I assume most of you are alive.

Wang, MATH 213

Of course, every model is wrong, but some of them are useful.

Storjohann, CS 240

For a long time, it was believed that matrix multiplication could be no better than  $O(n^3)$ . Of course, we also believed for a long time that heavier objects fall faster than lighter objects.

Storjohann, CS 240

profQUOTES continued on page 9

## UW in the Spring

### *Parenting Behavioural Changes Across Species*

To quote the famous singer, song writer and mathematician Tom Lehrer, “Spring is here, spring is here, life is skittles, etc... etc...” In short, he enjoys poisoning pigeons in the park (just look it up on YouTube, I swear!) So, at this point in the article, you have either stopped reading, and in that case, I commend you for saving time, or you are wondering exactly where the author is trying to take you, if anywhere. Well, I’ll make it short and sweet. We may not have too many pigeons in Waterloo, but we do have too many geese.

One of the reasons for this goose overpopulation is our negligence to follow the great advice of this Tom Lehrer by following him on Sunday afternoons and killing small animals, specifically pigeons and more specifically geese. Spring is also the ideal time for this activity, as the geese are just starting to nest, or more colloquially, just starting to “get jiggy with it.” And thus, we have an abundance of cute, trusting, little baby geese, ripe to feed poisoned peanuts to.

And yet, we don’t, which brings me to the main point of my article. Of all the species readily observable in Waterloo, the one with the best parenting instincts must be the goose. Geese ferociously defend their young’ns against a wide range of malicious attackers, from squirrels to small Asian girls trying to get to class. Thusly, baby geese are free to grow up to be like their much-loved adult counterparts.

Humans, on the other hand, perform less than admirably. Many human parents associated with Waterloo don’t even live there, or anywhere in the vicinity. Instead they leave their impressionable young’ns in the hands of ivy-covered professors in ivy-covered halls, or worse, in the hands of other impressionable young’ns. Like a long forgotten pet, the human adolescent is shipped to the kennel, never to be financially dependant on their parents again. And thus, a strange and unsettling time in the life of the human, late adolescence, begins and ends with the rather frightening process graciously deemed “education.”

So lastly, I encourage you to take a good look at your parents, (some of you should probably use Skype for this). I encourage you to not repeat the mistakes of the elder generation, and once and for all, end the oppression of “education.” I encourage you to do as the geese, to keep your children safely at home until after late adolescence has safely come and past, allowing your children to eventually spread their wings... and attack the nearest animate object.

Static IP  
Impulse Vector

## A review of “The Waterloo Mathematics Review” by someone who almost failed MATH 135

Reading the Review was like watching Primer: utterly perplexing. Well played undergrads, well played. I look forward to future issues that reaffirm my depressing grades in math courses are deserved. You guys are keeners.

-Stas

## Orange Crush Review Round-up

### *Waterloo Mathematics Review*

Yeah, it’s a pretty good faculty. Lots of good courses, programs, and profs. MathSoc is pretty good. Some things can be improved, I guess, it sometimes feels like the math student body has no cohesive social factor, and some profs aren’t all that great. But overall, academically I think we can all agree it has few equals. I give it an 8/10.

### *Waterloo Mathematics Review Review*

Well, it’s good. It’s nice to have an academic publication at the undergraduate level, and the papers are definitely high-level and serious stuff. However I do think they could use more visuals, and some papers that are accessible to those math undergraduates who are in lower years or who don’t have a significant pure-math background. I’ve got big hopes for the next issue though. So 7/10.

### *Waterloo Engineering Review*

It sucks. 2/10.

### *Thor Film Review*

Hey, how come celebrity *mathNEWS* writer Thor (who might be an ex-writer by now, I’m not sure if he’s still around) gets a movie and I don’t? I demand an Orange Crush movie! It should star Elijah Wood as me, and have Natalie Portman in it. And Charlie Sheen would cameo as himself. And J.K. Simmons would play GroovyED- “Orange Crush is a menace! Get me some pictures!” [Editor: GroovyED - I didn’t say that either — Ed.]

Orange Crush

## MathSoc Office Rearrangement Inspires Awe

As the trickle of students strolled into the MathSoc office for the spring term, a novel sight greeted their eyes: the floors now shine with scintillating luster, the desks are placed with exalted professionalism and the designated procrastination principality which pervades the former inner sanctum of helpers under the imposing structure which the board games call their home. Each person who visits the office becomes bewildered at the ergonomic arrangement which the office now possesses; the sublime grace with which the new feng shui of the placement brings serenity. All leave with the expression of having had the fortune of witnessing a rare double rainbow illuminating the office grounds and promulgate among the masses about the amenities the office offers.

Word of the greatness of the refurbishing piques the interest of many passersby and with the advent of the new term; people flock therein to be within the proximity of the aura the office environment suffuses to its occupants. Even engineers, well known for their animosity to the people in mathematics have been known to show up in the office seeking the services offered. Naysayers regarding the new arrangement are skeptical about the length which this high can last, but the people would hear none of it: every day more and more of the public graces the room and fill it with rapture and bliss.

Zethar

## Ending of Stories

Have you ever read through a good book, watched an amazing movie or show, or gone through an awesome game, where you felt yourself so into a story that you just had to get to the end? And when the final moments occur, you can't help but feel betrayed, possibly unsatisfied from the ending. Maybe it wasn't what you were expecting, maybe it was something cliché. There is also the possibility the story took a 360 and basically seemed totally out of place at the end.

An ending is known to make or break a story, no matter the medium. The issue is, sometimes ending quality is purely based on opinion. There are endings which I found cliché and personally underwhelming compared to the rest of the story, yet others seemed to think the ending fit, that it made sense, that it was totally amazing. Now who's to say either of us are wrong? With things like stories, it's hard to tell.

Now just to explain why I'm feeling this. I had just finished replaying a horror game recently on hard mode (Fatal Frame 3), and I still found the ending to leave emotions unattended to. A bit of sadness, the feeling of connecting to the different characters and such. The thing is, I'm not sure why I would feel sad at the end. The ending was realistic, not realistic in the sense of the whole concept (fighting ghosts with a camera), but in the sense that the ending showed the reality and result of everything. Without going into the story itself (for fear of spoilers for those wanting to play the game), I felt that the ending showed exactly what should be shown at the end of most horror stories. Although a "happy" ending in a sense that the horror was over, the game still had a very tragic story. It wasn't an ending where everything was fine and dandy, and the protagonist got what they want, but it wasn't also a dark and demising story where they get stuck in an eternal nightmare, or they all die at the end. It just felt sad, yet happy at the same time. I guess it's hard to explain without direct example.

Anyways, I'm just curious about what people think of ending of stories. Do they want the whole happy ending? Do they like the predictable ending, or the random twist that no one expects? Do they like realistic endings, or totally abstract endings? Cliff-hangers, or everything tied up in a nice, neat knot at the very end? I'm curious to what you all think ... *[Submit to Black Box on 3rd floor of MC — Ed]*

Rei Kurosawa

## The editors are sadists

*We need more writers!*

Come on out to MC 3038 on Tuesday May 24<sup>th</sup> at 6:30pm and write for the best paper this side of the SLC! Bring a friend! Bring two! Bring some for us!

Fun times await!

The Editors

**Tuesday. 6:30. Be There.**

## How to waste time on the internet

A new spring term is upon us and with the spring term comes some complications. For example you don't have as many people around during the term or as many things happening on campus. So you have to find new ways of spending that down time that you now have. But don't you fret. The internet is here to give you more than enough ways to waste your time.

**Disclaimer:** *mathNEWS* takes no responsibility for the friends you lose, the classes you fail or the hookers you kill while following the websites given below.

1. **Reddit: ([www.reddit.com](http://www.reddit.com))** Well let's start with something that's only somewhat harmful. Reddit has for lack of a better word EVERYTHING on it. With its unpatented subreddit system you can find people who share your love of fashion, world news, learning new stuff, cooking food, working out, having horrible relationships, whalebait (see */r/whalebait*). After you begin to frequent reddit you will wonder why you went to any other site before this. The only downside for some people is that they believe the simplistic interface makes it look "unappealing." Personally, the stories, and information is good enough and the icing on the cake is the comments in some threads. Many of the things your facebook friends find was found in reddit two days before, many things you find in other news aggregate sites are often discussed in great length with very little trolling (but still quite a bit of it) on reddit. It has everything you need, everything you don't and everything you wish you didn't need but do.
2. **Sporcle: ([www.sporcle.com](http://www.sporcle.com))** I was unfortunate enough to discover this website a little late. It is a collection of quizzes on just about EVERY topic. Movies, geography, train stations, tv shows, actors, sports, books... well you get the idea, every topic is covered. Once you start one quiz you will find it hard to stop and it is really hard to stop. I can't count the number of times I accidentally went to sporcle only to stay there for hours before finally needing to go do something else. Use this one with caution. Also note that this site is great to go with with friends since everyone will be frantically trying to solve the quizzes.
3. **Kongregate: ([www.kongregate.com](http://www.kongregate.com))** This is one for you if you like flash games. Almost every flash game that you have ever found online can be found at kongregate. How the site expands itself as more than a flash game site is that game creators can make achievements within the game that give you "kongregate points." These points are meaningless but are great to grow your e-peen 3 or 4 sizes. It also gives you some incentive to try out new games. I personally have played some really neat games that I never would have tried if I was not on kongregate. But realistically, it's a giant time sink. Be ready to play games instead of finishing your assignment. It is horrible.

Well those should be enough to get you started for wasting your time and failing your classes. But at least you will have fun doing it. Until next time, may you get no work done.

DaFink



# Orange News

*All the news you really need to know, but not really*

Hello, and welcome to yet another mind-boggling, sense-numbing, leg-warming edition of Orange News, the only news column on campus based entirely on 100% non-factual information. After a successful run last term, the Orange News Editorial Team (AKA me) has decided to renew the column for another term. The team wishes to thank all of our supporters and partners, assuming they exist.

This time, we bring you a shocking, even disturbing, story that is not for the weak hearted. So I promise I won't read it. Our editorial team has just been notified of a horrifying developing situation—the new Math building, Math 3, has been kidnapped!

The new building, which until its abduction had been under construction right next to the MC. It was supposed to house the Statistics and Actuarial Science Department, and provide about 90,000 square feet of research and teaching space. The building has been under construction for a very long time, frustrating many students who have been forced to travel within and around other buildings to get to wherever they're going on campus. Its abduction is a tragedy affecting students, faculty, staff, and geese.

Math 3 is currently been held in an undisclosed location by its evil abductors, who say that it is safe for now, but if their demands aren't met, they will send it back brick-by-brick. The kidnapers' demands include \$3,000,000 in unmarked bills, a jet plane to Barbados, and some beer kegs. The request for kegs raises the likely possibility that those behind the crime are engineers, who have in the past been linked to such heinous acts as desecrating the Arts Faculty's boar, taking pictures of girls in bikinis, and redirecting the *mathNEWS* website to the Iron Warrior site on April Fool's Day. None of these acts have been termed 'acts of terrorism', and I don't personally know of anyone who would suggest engineers are more evil than Bin Laden's ghost.

I've roamed the campus to find out what YOU, the real students of Waterloo, have to say about this disastrous kidnapping of the Math 3 building.

Marc, a sharply-dressed C&O major, spoke for the entire faculty when he said, "This is pretty disappointing and very frustrating. A lot of time and effort went into the damn thing, so it better come back."

Nick, a tall guy who I think is in stats, commented that, "If ifs and buts were berries and nuts, we'd all have a merry Christmas". Maybe it's because I'm Jewish, but I've got no idea what that's supposed to mean. Thank you Nick.

A statistics prof who wishes to remain anonymous said, "Well that sucks, I was very excited to move my stuff into a nicer office in a new building in July. I hope the kidnapers don't harm the building, but the university shouldn't negotiate with bad people."

To remedy this awful situation, the faculty has appointed an emergency tie-guard to locate the Math 3 building, return it to campus unharmed, and capture its abductors dead or alive. Orange News has every certainty that these untrained amateurs will succeed in their mission and bring the building back. Who knows, by the time you read this article, the building may have already been returned safely to its original location without you even noticing it was gone at all.

As always, you can trust Orange News to keep you updated on all unimportant developments of fictional stories around campus. For questions, comments, or if you'd like to be interviewed for the next edition of Orange News, contact the Orange News Editorial Team at [orange.crush.uw@gmail.com](mailto:orange.crush.uw@gmail.com). Thank you, and good night.

Orange Crush

## profQUOTES

*Now with extra lemony goodness!*

What is the derivative of  $x^n$ ? I haven't done this in a while. I usually use Maple for this.

Storjohann, CS 240

I know I just said that ADTs are more than just stacks... but this lecture will focus on stacks.

Atlee, CS 246

Anthromorphic, it's greek where "anthro" means "deep fried" and "morphic" means "running shoe"

Substitute, CS 246

You load up your terminal and decide to use `egrep` to cheat an 83-year old woman out of scrabble. You'll feel terrible the next day. Trust me.

Anderson, CS 246

(Showing example)Let's pretend it's a travel diary, by the looks of it, a 3-year old's travel diary.

Anderson, CS 246

It's not essential knowledge, but some may argue otherwise. (Pauses) I hope that no one has a crossbow with them.

Anderson, CS 246

Friends are our friends: We show them our private parts; we bare all.

Atlee, CS 246

I highly recommend you turn in perfect assignments because they are really easy to mark.

Subich, MATH 138

This is just like Canada, win a majority with only a third of the people voting.

Hinek, CS 116

## Because I Can

*And nobody really can stop me...*

There are certain advantages to living large distances from family. One of the primary ones is the ability to do nearly anything without needing to ask permission. This can result in doing more interesting things than living at home would allow. Such activities include deliberately confusing people, sleeping in strange places, and running around Kitchener-Waterloo all night. As a proponent of the absurd, I recommend a daily dose of the very strange.

1. **Join a Club: Seriously.** There are around 25000 undergrad students. Even with very high estimates for numbers of people in clubs, well over 50% of the student body is not part of any clubs. Thus, being an active member of one will automatically put you in a minority. Bonus points if it is something cool like *mathNEWS*. Many of the clubs are even free!
2. **Do your homework in an unusual place:** Prime locations include the stairwell in Dana Porter and sitting in a tree. Then when people give you strange looks, act as if you are doing nothing out of the ordinary. This is especially effective if the material is completely out of place, eg. math homework in ML.
3. **Climb a tree.** There is nothing quite like the feeling of climbing a tree. Probably because I have not yet climbed a mountain. Although not very comfortable, a tree offers a unique perspective on problems. It makes all your problems seem much less important in the larger view of life, encompassing the fact of just how uncomfortable a tree is. Plus it gets funny looks from people if you are studying while sitting in a tree.
4. **Get on a bus.** Ride it for a while. Get off, and get on a different bus. Repeat this until you are in an unfamiliar area of the city. Then try to find your way back without asking for directions or taking another bus. On a more serious note, be sure to have a way of getting home if you cannot find your way back on your own.
5. **On a Friday/Saturday night,** walk down the street, find a party and try to get in. The more people that are milling about outside, this gets easier. This requires a degree of caution, as you have to be certain that the party is at least somewhat appropriate for you to be at. You do **\*NOT\*** want to accidentally show up to a high school grad party. It gets awkward. Very awkward. Bonus points if you convince the people that you know them.
6. **Get a creative costume.** Walk around campus in your robe and wizard hat, and see how many people comment. People in Waterloo seem to be completely desensitized to people wearing strange things, as evidenced by the fact I have walked around with pink hair, and a pink tie as a bandana without anyone batting an eye. Bonus points if you get someone to bat an eye.

MeaninglessQuips

## Why you shouldn't get your Imprint fee back

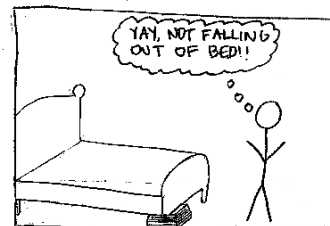
Some of you may be wondering why a *mathNEWS* article is telling you not to ask for your Imprint fee back. Wonder no longer, for the following is a list of things that Imprint might be good for.

- **Insulation:** Shredded newsprint is a great way to insulate your house. Just pump some into the walls and ceiling, and you decrease your heating and air conditioning bills. No guarantees made in terms of fire regulations though.
- **Nesting material:** Again, shred it up, put it outside in baskets, and wait a few days. You'll be woken up to the calming sound of chirping birds, lulling you back to sleep, and causing you to miss your classes and exams. On second thought, don't.
- **Lighting fires:** Take large bales of unused Imprint, and set fire to them, causing your campfire to ignite without the need to gather a whole bunch of little sticks. It may also cause carcinogenic smoke from all the burning ink. Try to stand upwind, and wear a respirator.
- **Wallpaper:** Cover those unsightly holes in your walls from that last drunken party you had, and recycle at the same time. On the other hand, some of those pictures could be mood killers when your significant other is over.
- **Tissues:** Flu season is coming around again to catch those who thought that winter is over. If you don't want to resort to the cardboard that passes as paper towels in the washrooms, give the Imprint a try. Softer than the worst brand out there (and with a lovely inky smell).

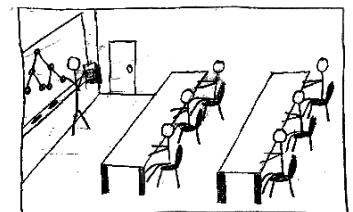
See? So many uses!

ConcealED

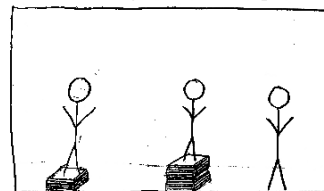
### USES FOR NOW-ARCHAIC PHONE BOOKS



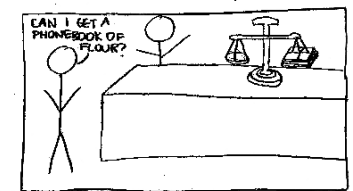
PROPPING UP FURNITURE



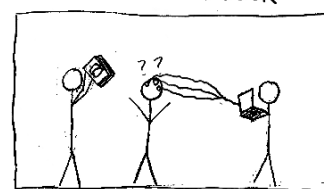
DEMONSTRATING BINARY SEARCH



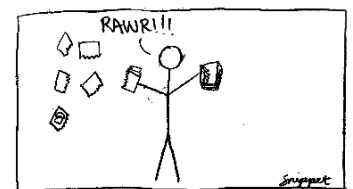
MAKING YOURSELF TALLER



A UNIT OF MEASUREMENT



CONCUSSION RESEARCH



CHANNELING THE HULK

# Holomorphoscopes

*Returning with a vengeance*

**ACCOUNTING:** The new Conservative tax laws bode well for you until Jack Layton grows his moustache enough to get 30 more seats.

Your Lucky Number: 30 Unions to join.

**AMATH:** You decide that there has to be a summary way to apply your math, so you optimize the amount of time spent at the beach. Unfortunately, you don't take sun into consideration.

Your Lucky Number: 3 less years before Cancer.

**C&O:** You optimize the number of drinking nights you can have during a week. You quickly gain a tattoo of Phil's stamps.

Your Lucky Number: 7 morning afters.

**CS:** You design an algorithm to determine the order to the throne. It turns out you are in the top 100! Unfortunately, that means there are a lot more royal stalkers after you.

Your Lucky Number: 6 million upset royal fanboys

**ENG:** Because of the large number of engineers on campus due to co-op, we are opting out of posting an Engineering joke here.

Your Lucky Number: 0 members of the SAE Team. Yeah, we posted it here instead.

**ES:** It's summer and the trees are blooming! You might think, "Hey, this is my time to shine!" Unfortunately, everybody else is enjoying the green grass that you lay claim too, leaving you no room to pass your hacky sacks around.

Your Lucky Number: 3 green spaces within ring road left...

**MATHBUS/BBA/BMATH:** You just made 1300 dollars off of a stupid stats major!

Your Lucky Number: 1 conversion to Islam.

**PMATH:** After the issue of CosMATHpolitan came out, you find yourself disappointed as now there are twice as many mathies making jokes that you thought were reserved for PMathies.

Your Lucky Number: 5 degrees of inside jokes.

**SCI:** You decide to make a 3-D t.v. using your physics. Unfortunately, you don't take into account the amount of UV light coming out of your t.v., and end up melting your child's face.

Your Lucky Number: The 4<sup>th</sup> dimension, facemelting.

**SOFTENG:** You figure your software is going to change the world, but in a weekend of love, death and miracles, you decide to commit yourself to a life journey on salvia.

Your Lucky Number: 3 trips in your last weekend.

**STAT:** You thought those bets on Osama never being found would get you a big payout after university. Until last Monday.

Your Lucky Number: 10 more years of OSAP Debt

**TEACHING:** Summer school! Your favourite time of year for the future! Unfortunately, you're the one in school now.

Your Lucky Number: 4 future months of freedom.

**UNDECLARED:** Why are you here in the summer when you haven't even declared a major yet? My number one choice would be to pick beach studies if I was you.

Your Lucky Number: 13 million grains of sand.

Tbor

## N Things You Won't Find in the Spring Term

*If you find these things, you have disproved this.*

- SNOW! (or anything winter-wear related)
- Long lines at Tim Hortons
- Girls (they're still not here XP)
- Artsies
- Sobriety
- Ninjas
- Ice-type Pokemon
- Happy and calm geese
- Happy and calm *mathNEWS* editors
- Appropriate mating rituals
- Computer lab rules being followed
- A good issue of *mathNEWS*
- A working *mathNEWS* online article submission system
- That one person you want to be there ... A LOT

## N Things to Find in the Spring Term

*No, you probably won't find Waldo here.*

- Some geese
- A zoo at Waterloo Park
- Cute goslings that will turn into attacking geese like their parents
- Co-op students
- Would-be-graduates who got stuck in the fly-paper of required courses
- People to date who are in your stream/sequence
- AAAAAAAAAAAAAANGRY GEESE
- Gamers emerging into the sunlight and melting
- People attempting to portal all over campus
- An invasion of pre-frosh
- *mathNEWS* writers arguing over correct use of prefixes
- A new derivative of the MathSoc office (come check it out!)

# gridCOMMENTS

*Golf is not a sport.*

Hello, *gridWORD* fans, and welcome to yet another term. I'm afraid I do not have a set of cryptic clues for you this issue, although I hope to provide them in future issues this term. With that being said, let us progress to business.

As always, there is a grid. And clues. The clues should suggest what words to write in the grid. Simple, yes? So, fill out a grid and submit it to the **BLACK BOX** along with your name and an answer to the *gridQUESTION* for a chance to win a *fabulous* prize. This week's *gridQUESTION* is, "What *gridQUESTION* should never be asked if I want to preserve my sanity?"

-perki

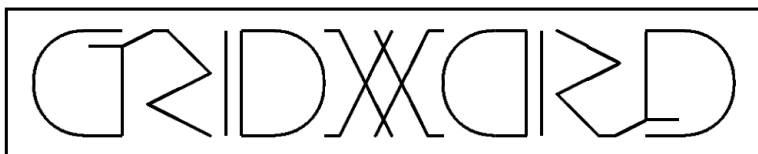
## Quick Clues

*Across*

1. Pizza with bacon and mushrooms
4. Small diner
7. Bachelor candidate
10. Prior to
11. Algebra, analysis, arithmetic, etc.
13. Colloquium
16. Alkaline cleanser
17. Small viper
18. Textile fibers
20. Artistic revival
22. Kill, murder
23. Disease causing paralysis
27. Over there
28. Paddling doubly

*Down*

1. Study of symmetrical solids
2. Flop, failure
3. Badger, harass
4. Large snake
5. Birdie, in sports
6. Decomplexifying excessively
7. Derope a skate
8. Rout
9. Reuben bread
11. Tasting of mentha
12. The measure of all things, according to Protagoras
14. Everlasting
15. Indictable offense
17. Broad neckties
18. Gull
19. Super Nintendo predecessor
21. See
24. Blemish
25. Large red deer
26. Hot leaf juice



## Drywaller

"Listen up. Our client isn't picky, as long as each square has the right number of walls surrounding it. Sounds a little tricky, but we didn't get to be the #3 drywall outfit in town by being lazy."

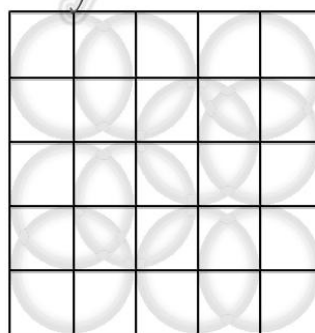
Also:

- There's a wall around the outside
- They want exactly 14 rooms

2	2	2	3	3	2	2	2	3	4
2	2	1	1	2	3	3	2	1	2
2	1	0	1	3	2	3	4	2	2
3	1	0	2	3	2	2	2	2	2
3	1	1	2	1	1	1	1	2	2
3	2	2	1	0	0	0	0	1	2
3	2	2	1	0	0	0	0	1	2
2	2	2	1	0	0	0	0	1	2
1	2	3	1	0	0	0	0	1	3
2	2	3	2	1	1	1	1	2	4

## umbrellas

Place the following 10 squares on the 10 circles so that the overlapping numbers match up.



8	8	6	2	8	3	2	2
3	8	8	1	1	1	1	2
3	0	5	8	2	3	8	6
8	6	8	3	5	8	7	2
9	7	6	0				
2	2	2	5				

**Puzzles  
courtesy  
euri.ca**

