

>miracles<
a student's best friend

by

Young Frank Einstein

I wish to speak today on a subject dear to the hearts and red pens of those fearless (and sleepless) men and women who mark our assignments. For those students lucky enough to get a marking job at Waterloo, the scene I will now describe is a familiar one. For the rest of you, it may also be familiar from the opposite point of view.

Joe Marker opens Jack Student's paper and begins to mark. Check, check, check, pause, sigh... check, check,... huh? Hm... x equals 12, ... therefore x equals 5. Red circle gouged in paper. Notation: "this isn't logical!"

Perhaps this is an overwrought example. But it exemplifies a condition which is spreading quickly in undergraduate mathematics assignments: the *>miracle<*. If a concise definition is necessary, this might be it: A *>miracle<* IS:

1. illogical
 2. unexpected
 3. at its best, imperceptible
- The purpose of the *>miracle<* is to restore verity to a thoroughly hollixed solution. As such, it is to be distinguished from the much less impressive * mistake * which takes a consistent argument and destroys it, or (even worse, I fear) worsens previous * mistakes *. A *>miracle<* is deliberate and calculated to catch the one marker in three who after 40-odd papers has enough alcohol in his system or clouds in his head to consider only the bottom line of a solution. And it must work sometimes, or it wouldn't be done!

The other two markers of the three feel at first surprise, then shock, then pity, then revulsion and lastly disgust (and maybe the odd thought of murder) at the suggestion by Jack that Joe could be that bad a marker. I know that I've often wondered how these fine, upstanding young men and women, mostly Ontario scholars and a substantial portion of them spoiled brats, could be so devious. But I (and the rest of the marking profession) must salute the ingenuity and derring-do of these mendacious miracle workers.

It is particularly amusing to find that some * miracles * are based in common sense. For instance, here is one pulled by a friend of mine in Grade 12 (at a time when he didn't know sf(a) about calculus): Given the differential equation $dy/dx = 5$, he blithely cancelled out the d's and multiplied both sides by x to get $y = 5x$, which is effectively the right answer. (Exercise: can you find a more complicated example?) The one I like best (but which is not really a *>miracle<* since it doesn't give a right answer) is the one where there's a pentagon PQRST and a point O inside it. When asked to work out the product of the lengths of the line segments OP, OQ, OR, OS, OT, this anonymous Einstein wrote the equation $OP \times OQ \times OR \times OS \times OT = 00000PQRST = 0^{**5} \times PQRST$. With a little work you can imagine him working in the area of PQRST into his calculation!

So, to all you Jack Students out there, just bear in mind that Joe's not necessarily a dupe. He can't really punish you for doing this (the alternative to a *>miracle<* is an unfinished answer anyways) but you will remember it in your conscience until you die (or become a marker yourself).

Young Frank Einstein
on sabbatical

Volume 31

Number 3

Raiders of the Lost

math **NEWS**

Friday 11 February 1983

A Meeting of Minds

Wherein the greatest mathematical geni of our age spew forth great thoughts about nothing very important...

In setting up the **mathNEWS** Think Tank we had several considerations: first, who would we choose to be part of the group; second, where the hell would we get a used tank. Not surprisingly we tackled the second problem first. It's not easy driving a tank, though, and we'd appreciate hearing from any K-W Nazi holdouts interested in becoming our driver.

As for the participants, we started at the most obvious place. Finding no one in C+D that met our standards, we decided to send out membership offers by mail. We sent them to the head of the American Mathematical Association, to the Eotvos Institute in Hungary, to the Mathematics Departments at Case Western Reserve and U.C. Santa Barbara, and printed them on the backs of all Mother's pizza boxes used in Ontario.

No sooner did we buy the tank than did a myriad of applications pour in. Yes, said the head of the A.M.A., it sounds like the opportunity of a lifetime. Yes, said the Dean of Mathematics at M.I.T., we've needed something like this for a long time. And so the first meeting was arranged.

After we removed the tank from the tangled wreckage of the Bauer Warehouse, representatives of the various luminaries came forth. "Gentlemen," said lackey #1, "I give you the president of the American Mathematical Association, Dr. David Ash." David Ash, we thought. What an odd coincidence of names. Amused, we watched the next one make his announcement. "Presenting the Dean of Mathematics from U.C. Santa Barbara, Dr. David Ash," said lackey #2. And on it went. Our worst suspicions became reality as, one after one, umpteen carrot-topped geni crowded around the tank. "At least we will have unanimity here..." sighed the organizers, as the discussion turned from sundry mathematical issues to Space Invaders and the future of Thunder Bay, then to a debate on how to avoid freckles while tanning.

At the moment the **mathNEWS** Think Tank is meeting at irregular times in a house in Sunnydale, amid complaints from neighbours of an intense reddish glow emanating from inside the tank. We hope that soon we will begin to see some return on our initial investment - or at least get the bloody tank back.

Ross Brown
Think Tank liaison officer

Campus Spelunking

Down in the deep, dark recesses of the Campus lies untold secret passages in which mysterious students traverse. These secret passages have been built, blocked and used. However, **mathNEWS** reveals the hidden truth about UW's tunnels!!

Math - C2

This tunnel may be accessed by a door near MC1083 which will take you to the C2 building and from there, to other Science buildings such as ESC, B1 and B2 via indoor connections and above-ground walkways. No need to brave a blizzard to get from Calculus to Chem!!

SCH - Arts Network

First, the South Campus Hall to Arts Lecture link: From South Campus Hall, you may enter this tunnel by a door to the west of the Open Door Gift shop area. This echo-prone, orange passage provides a direct link to AL's basement.

From there, you may proceed by another tunnel to Environmental Studies, Modern Languages, or to Hagey Hall. The tunnel entrance at the Modern Languages is right in the basement cafeteria, so watch out for diners.

Incidentally, the basement of Arts Lecture contains the former national office of the **Warriors Band**.

Continued on Page 9

A hard-hitting special report...

MATHIE ZOMBIES

"The time has come", the walrus said, "to speak to you of the walking dead". Sorry WATSFIC fans, I'm not discussing literal zombies, (which are defined as actual dead people brought back to life) but rather, about those still alive despite their best efforts. These sad people are victims of the morning after the night before, and, in extreme cases, the morning after the morning after the night before.

Spotting this all too common species of mathie is rather difficult since they are rarely seen outside their natural environment (i.e. bed). If you should be lucky enough to spot what you think might be a mathie zombie, you can make sure by looking for some tell-tale natural markings.

The first thing to notice are the eyes. If they are glazed and open look for an after image of a computer screen. The word "ERROR" should be prominent on the screen. If the eyes are closed, don't despair, it could be just another variety of mathie zombie.

The next thing to notice is the mouth. It should be hanging half open. The tongue may or may not be hanging out.

Moving on down the body, the shoulders should be bent and slouching. The arms should be limp and the feet should shuffle as though unsure as to whether they should actually keep moving or just stop and take a break. Often they make the wrong decision and the poor zombie mathie ends up standing in a corner for an indeterminate length of time.

An extremely common destination for the zombie mathie is the C & D shop on the third floor. This shop sells a magical healing elixir for zombie mathies: COFFEE!!! (chock full of restorative caffeine). All too often, however, the zombie mathie cannot form the thought; "coffee"; and so it just wanders to its classes out of habit.

In a class, a zombie mathie is most easily spotted by its randomly arranged hairs and by the way its eyes are always a few seconds behind in following the prof's movements. After a time of this delayed reaction activity, the zombie's head will be slowly pulled down towards the desk and unconsciousness will claim it. Some zombies exhibit phenomenal willpower and may last through several classes or even days before they are eventually overcome. But all are overcome eventually and sleep claims them and sends them to face Morpheus's wrath.

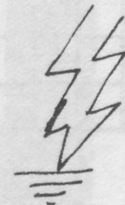
The cause of this condition can be said to be one of two things. Pleasure or Pain. (No S & M please!) If pleasure is the reason, you can bet that this mathie has seen a lot of glass to mouth action with the possibility of dancing complications. Sadly, the more common cause is pain. This pain, while taking myriad forms, fits into one category: schoolwork. The dreaded "all-nighter". The beast that robs us of sleep and drives brain cells to suicide, while making others scream out for euthanasia. (Death is usually granted to these brain cells via a painless dose of alcohol).

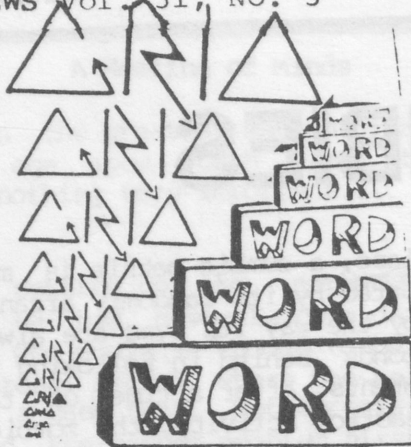
Take heed my children and be warned. You, too, can be made into a mathie zombie. In fact, about 95% of you have been or soon will be turned into mathie zombies. (The other 5% are in Pure Math and appear as mathie zombies normally). Be careful, there is no human force that can prevent this ravaging condition. No one is safe! Relapses are as common as first attacks.

If you should feel an attack coming, remember the C & D. Only with the C & D can you combat mathie zombism.

You have been warned...

Grounded Lightning





GRIDWORD

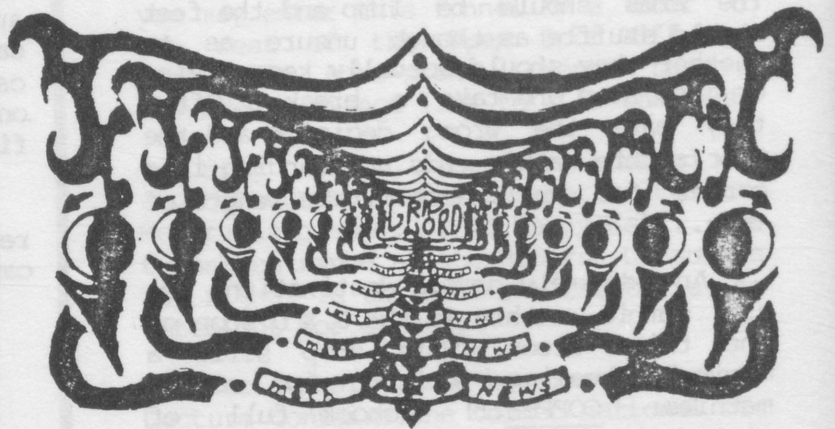
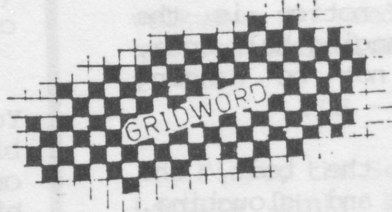
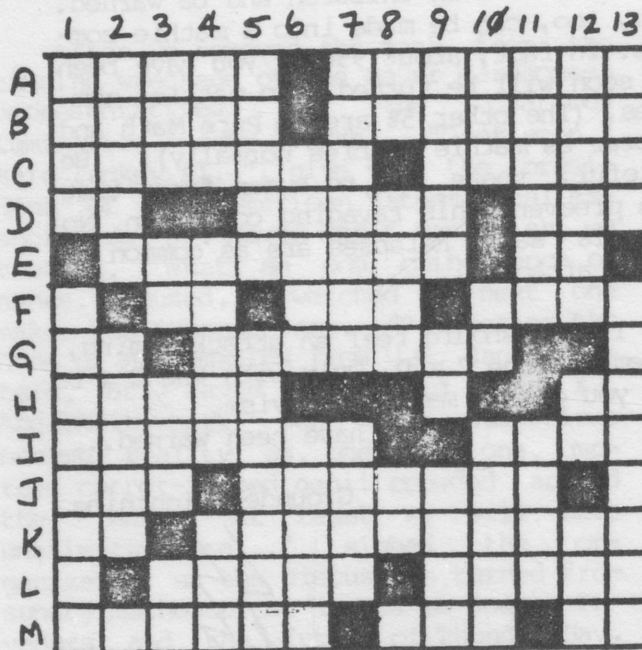
APPERCEPTION:

REMUNERATION:

REPERCUSSION:

- A1 Why and how to go to Ottawa (1,1,3)
- A7 AIA stand on everything (7)
- B1 A likely story (5)
- B7 Someone unique (7)
- C1 Agile, black gibbon (7)
- C9 Mutual of ___ (5)
- D1 Backward language (2)
- D5 Did it to a math 240 kitchen (5)
- D11 A real louse (3)
- E2 Cousin of Einstein (8)
- E11 Some mathies in it (abbr) (1,1)
- F3 Home economics (1,1)
- F6 A lonely number (3)
- F10 The Swedish Connection (4)
- G1 Sign of a typo (2)
- G4 Mixed-up dog (7)
- H1 Sound alike (5)
- H12 Yes, there is a Santa Claus (abbr) (2)
- I1 Little carpet (4,3)
- I10 Way to get up in the world (4)
- J1 Short for a Leaf coach (3)
- J5 Cut a little (7)
- K1 \leq (2)
- K4 Certainly doesn't change much in a group (10)
- L3 Not a stacked deque (5)
- L9 ___ 86 (5)
- M1 Rich Scot landowners (6)
- M9 Normally Not Now (1,1,1)
- M12 IBM file (abbr) (1,1)

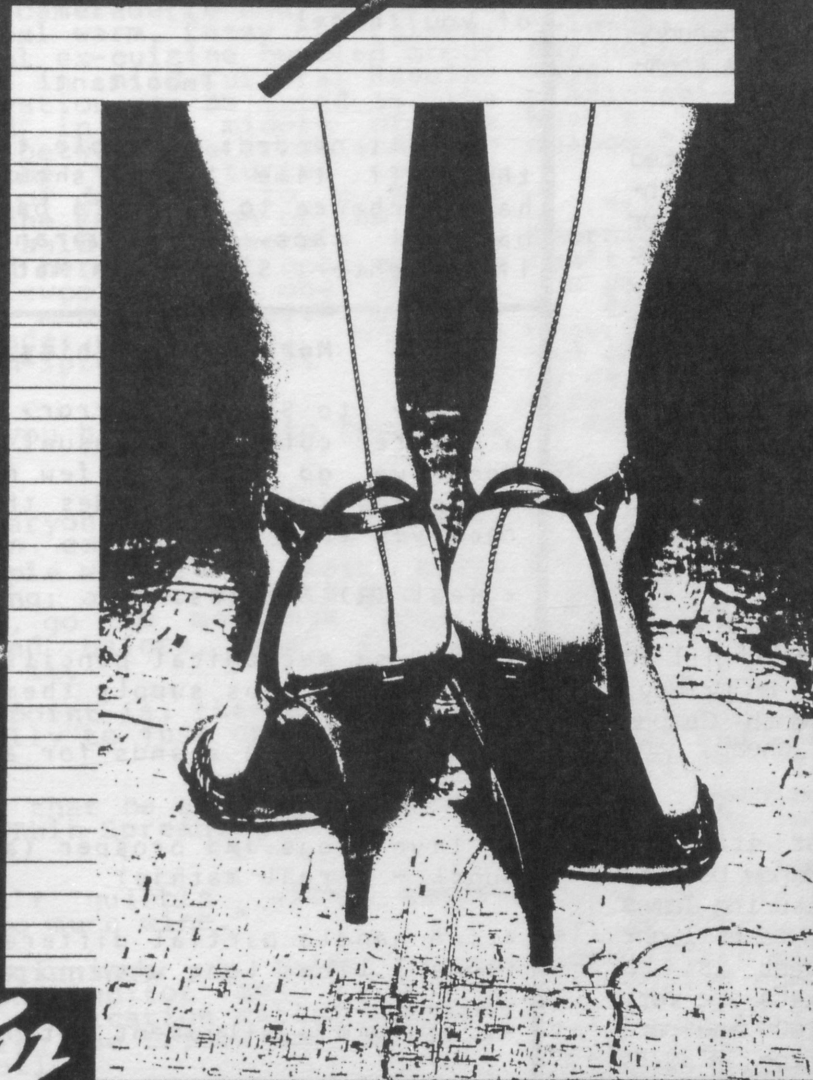
- 1A Johnny = Money (4)
- 1F Going my way (8)
- 2A One who bends (5)
- 2G ___-cornered hat (5)
- 3A EQUIVALENCE (CHEVRON ___) (1,1,1)
- 3E ID ees (2)
- 3H Got an urge for Japanese money (3)
- 3L A backward test (1,1)
- 4A Monopoly anyone? (3)
- 4E Prove a theorem with it (5)
- 4K On a French knight (3)
- 5A California lariat (5)
- 5G Former reluctance (7)
- 6C Formerly inert (5)
- 6I two two-toed sloths (5)
- 7A Fishing to a degree (7)
- 7I jeer (4)
- 8A What to say to an assembler program (2)
- 8D What no one is here for (4)
- 8J Motherhood and apple ___ (Greek) (2)
- 9A Positively no vibration (1,4 or 5)
- 9G Variation of easy (U.S.) (2)
- 9J Papillon had it in arrears (4)
- 10A Doctrine (3)
- 10F JCL out of control (1,1)
- 10I Don't need an umbrella for this type (5)
- 11A Slight difference (6)
- 11I You axed for it (4)
- 12A Some rock formations are full of it (6)
- 12H Unreal storage (1,1)
- 12K Finish a program (3)
- 13A Not this! (4)
- 13F Halifax, Vancouver, ~Regina, etc... (8)



cfny fm 102.1

PERSONALITY PERSONALITY

Host Show



Design by Grant Ivens — Photography by Larry Newland

WITH

JAMES SCOTT

SATURDAY, MARCH 5, 83
TICKETS: \$3. IN ADVANCE, \$4.50 AT THE DOOR
IN THE SOUTH CAMPUS HALL - LICENCED!
TICKETS ARE ONLY AVAILABLE IN Math Soc!

Office Spews

This is my last column this term as acting president of your society, and as such, I would like to thank all you devout mathies who have supported all our events. Our new president is Laura Redican! I will still be writing this column as the office manager, though, intent on keeping you informed. Also, thanks to everyone for making "The Library" a great success — let's do it again! Even those other pseudo-societies were able to control themselves for once!

Last Monday, (the 7th), MathSoc donated \$100 to the Red Cross for expenses incurred in running their blood donor clinics on campus. They will be here for another bloodletting on Monday, March 7 in the third floor lounge. Their goal is 300 pints, and the engineers say that they can do that much alone. Let's see if we can beat them!

This Tuesday will be **Math Night** at the basketball game against Mac. Be sure to wear your Official Pink Tie available for only \$5.00!

There will be a pub with the Psych Society (you remember the valley girl in FASS?) co-sponsored with us on Friday, the 18th of March in the South Campus Hall. Admission will be cheap, and booze will be plenty...

On a final note... **We've got it!!!** . The **CFNY Personality Roadshow** be here sponsored by MathSoc and featuring **James Scott** along with a superb laser light and video show. This event is on Saturday, March 5 and tickets are **very limited**. They are only \$3.00 and are available in the MathSoc office, MC3038, in advance. Tickets will be \$5.00 at the door. There will be many prizes given away, and by the way, the event is licenced, so you will need age ID at the door.

Sean Romenco

**Profound (more or less)
Statement of the Week**

(In honour of First Choice and Playboy)

Sex on television is fine, so long as you don't fall off!

All Mathies!!

On Tuesday Feb. 15, the last home game of the basketball season will be played between McMaster and our own Warriors. It is Mathie night so come on out and bring your pink ties and see a great game. The Warriors are at the top of OUA West with a 7 and 2 record.

We are looking forward to seeing all of you there!

Important

Still needed: 5 people to compete in the half time basket shoutout! You'll have a chance to win tote bags, mugs or baseball caps. You're guaranteed a prize if you enter. Sign up in MathSoc now.

More Real Mathies!!

Due to Scooter! Error, we will have a shorter column than usual this week. Here we go with a few more selected responses from the hordes that we have received thus far:

* Real (R) Mathies:

* do use mechanical pencils, so long as their co-op jobs supply them with leads

* know what GEB stands for and have read it

* live logs and prosper (attributed to Spock - a real mathie)

* can handle partial differential equations 3 lines long with no trouble

* can form a nilpotent matrix at a whim

???

And there you have it, all you Real Mathies out there! Keep those submissions coming, and watch this space! {Scooter! thanks Housing Administration for a sudden 'move by two hours before you he this from us' order to have delayed him from being able to assemble a full column for his issue. He also thanks Mark Kahnt for keeping him up to all hours of the previous night in discussing stupid ideas for ECLECTIA (hint: Mark, ECLECTIA is ECLECTIA, don't try to change it). }

What this is, why we are doing it, and why you should care

This article has three beginnings and three endings. Pick whichever ones you want.

indirect beginning: Last December, at the post-Putnam dinner in the Tien Hoa Inn, spirits were high, though relatively inexpensive since the Math faculty was footing the bill, and the brisk after contest camaraderie had dissolved into individual warm, fuzzy afterglows, as the Oriental ex-cuisine burred about our stomachs in mild Cultural Revolutions; conversation was as muted as the lighting, and in the middle of the second table, between the frosh and the professors, the topic turned to the nasty effects of devoting to a single cause, like the Federation or the Chevron. "Look," said one, "there's enough to do around here without getting tied up in one viewpoint, in one set of people, and missing everything else lying right under our noses." What we need is a Thin-Spreading Club."

"What do you have to do to become a member?"

"Well, everyone's a member, you see, to a certain extent. Passive members are those people who sit on their asses and do nothing; active members try different things, go to meetings they've never attended before, just for the sheer hell of it.

"But the point is, they don't commit themselves fully to just one thing."

"Wouldn't that be committing oneself fully to the Thin-Spreading Club?"

"Oh, don't quibble with words. You've had too much wine."

rational beginning: A rather soppy February, a past editor and a present editor of a publication called mathNEWS were discussing the trials and tribulations of it all.

"It's been said repeatedly that the main purpose of mathNEWS is to provide light entertainment on a Friday afternoon. Well, I, for one, don't believe that anymore."

"Neither do I. It's obvious that we aren't even accomplishing that much."

"Yet I know we've got people who can turn out something more than trivia. The problem is that we're all lazy; we try to get away with the minimum amount of work expected of us, which has been steadily declining since mathNEWS started five years ago."

"Well, if we want to upgrade the standard of the paper, it's quite simple: we start rejecting lousy articles and obvious filler."

"Yeah, and as a result our average issue will be a single sheet, one side. People have gotten too used to their own little styles to change them. We have the gridword, we have the personal columns which talk about everything and say nothing, we have the masthead which says even less, and it's all very predictable and all utterly boring. What's needed is a complete design change."

"It's all very well to talk about improved journalism, but mathNEWS really can't function as a newspaper. We put the paper together on Tuesday night and it comes out Friday. Meanwhile, the Chevron and Imprint came out before us and can change or include articles after we deliver our paper to Graphic Services. Our lead time's just too long. So what's the answer?"

synthesized "heavy" beginning: Easter Sunday, visting a campus almost deserted, back from an isolation more psychosomatic than actual, he could somehow sense the heartbeat of the campus; not a loud pounding boisterousness, but a quiet throbbing certainty, a diffuse awariness of life in about its borders. As he climbed the steps in front of South Campus Hall, he wondered just how many others never left their little boxes, safe in their few repeated actions, and their dreary, repetitious rote lives. The wind blew through the funnel opening by the bookstore, rattling the loose stubs of paper on the cleaned-out billboards, and he thought: give them a tool, a can-opener, a roto-rooter to till their soil. All through high-school they've been compartmentalized, strapped into their desks like those little plexiglass machines used to make boiled eggs cubical, and now that they're here they see the few remaining petty restrictions as overwhelming, an excuse to keep their old mode of behavior fixed and unchanging. Show them what they can do, and if a hundred dismiss you as annoying, one may listen long enough to transcend the whole sordid mess.

As he came out on the path between Engineering 1 and the Grad Club, the sun broke through a gap in the clouds and beamed down upon him, but it was such a ridiculously obvious symbol he refused to even think about it. **retorical ending:** Freedom is the byword - freedom through transcendence. We're young and that scares many people, so they try to control us by pulling us the way they want us to go. A lot of us pull as hard as we can in the other direction, which is obstinate, pig-headed, and results in

Feedback

Dear mathNEWS

I (who else would I talk about (oh wow - I just mentioned me again ("ad infinitum"))) wonder (that is, I am dwelling on an uncertainty (what else does one do during lectures - I know: sleep, read, daydream, philosophize, doodle, etc.) (actually there are a lot of uncertainties during 50 minutes, as most lecture material is abstract and new to us)) how many (regardless of quality (which is pretty poor right now)) brackets (parentheses (these things (you know what I mean (you've seen enough of them so far (and will see even more after the editors get through adding their comments (and thus losing the reader (if he is still awake (and not already lost)))))))) one can add (or even multiply (as was the case last time)) to one (believe it or not, this is still the first (and last (only?))) sentence.

Sincerely

Dear GRMcFarlane:

We at mathNEWS generally (though in some instances we might make an exception (as though exceptions were the rule (and they aren't)) which we might regret) don't insert our (the royal we (the editors that is (Scooter! & djcl)) is being used here) comments (however vicious they may be (but we'll step our toes (figuratively speaking (actually writing (aww, what the hey))) on our ramblings) and however placed) on feedback unless we (there's that royal (again, figuratively speaking (or writing)) we, again) deem that this (that is, the comments (our comments on the comments)) is necessary (necessary, that is, to explain or defend anything (anything?) that mathNEWS might have to say (but we usually don't (so there (ha!))) in this case (the case being your (GRMcFarlane's) letter).

Dear mathNEWS:

All right! Now you've really done it! We do not like to be addressed to with prefixes such as Mr., Mrs., or even Dr.!! Get the name straight, folks!! We are getting sick and tired of such abuses.

Imprint

Dear Imprint, M.D.:

Once again, mathNEWS apologizes for the inconvenience.

2 Proofs that Lineups Don't Exist

This issue's proof attempts to comfort the lunch time reader of our rag by assuring him that the line-up he is standing in doesn't really exist, and he can buy his food at the C&D stand as soon as he finishes reading these proofs. (A lineup is assumed to be greater than one person.)

Theorem: lineups don't exist

Proof 1 (by induction):

Let n represent the number of people standing in front of the C&D stand. When $n=1$, there is one person in front of the C&D stand, so there is no lineup.

Assume that when $n=k$ there is still no lineup in front of the C&D.

Now, when $n=k+1$, there is one more person in front of the C&D stand than when $n=1$. But when $n=k$, there was no lineup, so noone was there. Therefore there must be 1 person in front of the C&D stand now ($n=0+1$), but 1 is not a lineup either.

Therefore, by induction, there is no lineup in front of the C&D stand. Enjoy your lunch.

Proof 2 (by contradiction):

Assume a lineup exists. Leave. Look around. There is no lineup anymore. Therefore the assumption is false and by contradiction a lineup does not exist. Now hurry up and get in the non-existent lineup before it gets any longer!

grmcfarlane

Continued from Page 2

zero net movement. What we should do is push, and then pull, and yank to the left, and go into a square dance maybe, take a jerky tour. There's a game where two players try to snatch a handkerchief from the ground while retaining their grip on opposite ends of a broomhandle. It's a hell of a lot more entertaining than tug'o'war.

practical ending: We started out with the aim of upping the quality of mathNEWS by making a few changes, and ended up with a totally different publication put out by the same people. We don't want to talk about ourselves too much, so this is the last time you'll read anything about us; if you want to learn more, ask one of the contributors listed on the back page. This is a summer experiment, so we're willing to try a lot of things that haven't been done before; anyone can write for us if they give a little bit of thought. We won't be publishing regularly, owing to a wish not to use filler, so you'll have to keep an eye out for future issues. I've said enough already; dive in.

functional ending: Like it or not, you're a member of the Thin-Spreading Club. What we hope is that you'll become an active member, and most of this publication is devoted to helping you achieve that. It should be obvious that what we really want to do is put ourselves out of business by becoming unnecessary. Everyone has the basic curiosity to find out what's happening; unfortunately, a lot of people are scared, introverted, too busy, or just plain lazy. If you think this is an artsie-type idea, then you've missed the point: artsies, mathies, and n-jinears are largely artificial divisions of people, people who all like to have a good time. Luckily for us writers (and for the unemployment rates in this country), everyone has a different idea of what a good time is. We hope you will find yours here.

{This article was the popular introduction to ECLECTIA, which might have been Volume 20, number one of mathNEWS under normal conditions. It seems that the more mathNEWS changes, the more it stays the same, because this was the only product of Volume 20. In the fall, mathNEWS volume 21 hit the stands (and the garbage) with the same quality of any other issue. Alas, there was but one issue of ECLECTIA ever to be produced. A proposal has been made, however, to put out a revival of ECLECTIA later this term and in the dying days of successive terms. If you support the idea, make your views and news known to us by way of mathNEWS, MC3035, the mathnews or mathnoos accounts on the Honeywell 66/80, or the black box outside the C+D lounge on the Math building's third floor. For ECLECTIA, this is Mark Kahnt.}

Continued from Page 2

CC to Village

According to legend, this tunnel (if it existed) connected the Campus Centre to the Village residences. This was reportedly closed off some years back due to sexual assaults in the tunnel.

And that's the tunnels at UW to the best of our knowledge. Please tell us if there are any more. Use the tunnels, but please take care at night when using them as you never know if there are any robbers, rapists, etc. down there. Nevertheless, the tunnels can save you a case of frostbite if you are dodging around from class to class.

Happy tunnelling!

Hooked

Wonder what I'll do today,
Solve the Cube another way.
My fingers numb,
My swollen thumb,
I should have thrown the thing away.

Save me from my Cube distress:
Forty seconds, not one less.
Though I try,
Don't know why,
Forty seconds is my best.

Then a record, thirty-nine,
Slows the chaos of my mind.
For a while,
In my smile,
Feel the fever, hid behind.

I'd go insane, they'd me inform,
This just because I won't conform.
To stop a while,
Is not my style,
I have to stay in my top form.

Yes, I'm a Cuber, nothing less;
Rubik's Cube's what I do best.
A ruined thumb,
My senses numbed,
As I await my Cubic rest.

M. Kuindersma

The University of Waterloo Drama Department Presents



WAITING FOR GODOT

by **SAMUEL BECKETT** directed by **Douglas Abel**

THEATRE OF THE ARTS

Feb. 15 - 19, 8:00 p.m.

Tickets: \$5.00 (\$3.00, students & seniors)

U. of W. Arts Centre Box Office 885-4280

UltraClassified

LOST & FOUND ...Just a reminder - MathSoc does have a lost and found. Some current items we have in our possession:

- 1 pair of glasses (in a blue vinyl case)
- RER DAVIES student ID card
- 1 scarf
- miscellaneous text books
- various assortment of gloves

To claim any lost items, drop by MathSoc (MC 3038) and provide an adequate description of the article.

MGB '83 ...Math Grad Ball is on March 26th. Tickets soon on sale, if not already. Watch this space!

HEY, KIDS!! ...MathSoc pink ties on sale!! Just in time for co-op interviews! Goto MC3038.

Masthead East: Well, this ~~update~~ concludes our mathNEWS activity for this issue. I'll let Scooter! take the larger area, since I wrote it last ish...hope you're feeling better, Glenn... sorry about the short Real Mathies, but we got a LOT of response last week; keep it up! We'll (hopefully) be here two weeks from now! ~~*****~~
That's it...73 de VE3LRS.....djcl QRT

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 Waterloo, Ontario
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Bird Bath:
 mathNEWS Course Survey

The responses are starting to trickle in for mathNEWS' latest survey. However, we will not list any of the rankings or comments until the last issue of the term to avoid bandwagoning. In the meantime, please take part in this simple survey by submitting the following information to mathNEWS:

1. The course name and number
2. The ranking of each course (0 = baaad! to 10 = WOOOOWWW!)
3. Any comments you may have about the course.

We are especially looking for ratings of upper year courses. When all responses are collected by March, or thereabouts, we will tally them and present the data in mathNEWS.

Masthead West:

Step right in to the lovely lodge here at Masthead West. We present the two and only diligent workers here tonight, djcl and Scooter! Then there is Sean, who just happens to be playing on the bun and vm, and... We graciously thank Glenn McFarlane, Former rag editor Ross Brown, and even Sean for their contributions. Much thanks to all of those REAL Mathies who tried to explain what made them so real. Welcome back to Grounded Lightning and many thanks for the terrific article on page three. We even thank Mark Kahnt (thought we got rid of him with Stream 4) for his offer to put together the ECLECTIA Project. We look forward to there being a classy version of mathNEWS (sure thing Jethro). We hoped to be out by eleven, well cp disconnects @ 22:43

HONEYWELL, PA.

Well, I'm living on the Honeywell
 And my programs aren't running too well
 In the Gandalf room, they're killing time
 Toggling their switches, waiting for lines

Question 3 is like the Second World War
 And we haven't written FORTRAN before
 So we won't be getting sleep toni-i-i-i-i-

- Billy Joel (paraphrased)

mathNEWS Calendar!

13				
14	Valentines Day Co-op Interview Period Starts! <i>Good luck from math NEWS</i>			
15	Shrove Tuesday			
16	Ash Wednesday :WATSFIC: Cinema Gratis: Moscow does not Believe in Tears			
17	Dinah Christie Humanities Th.			
18				
19	theatresports HH180 2000 hrs every sat.			
20				
21	Have you been to the CHD lately? (3rd floor Math Lounge)			
22	LOOKEE!!! mathNEWS / Production/ watch for detail			
23	Pub Crawl :WATSFIC: C.G.: Magnificent 7			
24	Co-Ops! Pick up ranking forms!			
25	End of Co-op Interviews <u>mathNEWS 31:4</u>			
26	MathSoc Orientation Meeting, 1400			
27	Gavin's Birthday			
28				
29				
30				
31				