

HELP!

Drinking and driving don't usually mix except when you're running a pub rally. This mind bending experience combines a car rally with a pub crawl. In order to finish the race various hotels must be visited by the navigator (sorry drivers) and he/she drinks two draft. The trick is now for the navigator to get the driver and the car to the finish line as fast as possible under the restrictions of the road and race. Does it sound great? Well, we need an organizer for this adventure. There is information and past rallies filed away, so if you are interested come to the mathsoc office and tell us.

Speaking of races, the great Antical Dash is catching up to us. Despite the fact that this year's issue is not pieced together, the collecting of data must go on for the next. This fall will be the start of a new Antical with the introduction of a different questionnaire. In order for this tradition to continue (Antical that is) we need some creative person to organize the distribution of the questionnaire. This person should come to mc3038 as soon as possible.

To carry the theme of this article further; the Math Blitz Team requires volunteers to keep the wheels in motion and the machine running. The Math Blitz Team is that group of people who are responsible for planning all mathsoc events, making sure they happen, supervising them and doing the promo (advertising). The reward for working on this team is better than a handshake and a thank you. Just by looking at the Math-Art week calendar it can be seen that a lot will and has to be done. If you wish to help out at anything that mathsoc has planned or if you wish to plan something, come to the office and declare your intentions.

FRIDAY, OCTOBER 10, 1975.
ISSUE 9.5

math NEWS

math Soc ~~acclamations~~ elections

Math Society is holding its first set of elections for the Fall 1975 term on Oct. 23. Some of the elections will be held to fill vacancies on council created by resignations, and changing of constituencies. Other elections will be held to elect first year reps to the council, while a special election will be held to ratify constitutional amendments. Hopefully many Math students will be candidates so we don't have acclamations. We are hoping for a good voter turnout. The important dates to remember are:

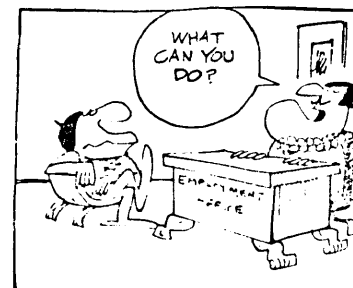
- > Wed Oct 8 - Nominations open at 9:30 am
- > Wed Oct 15 - Nominations close at 4:30 pm
- > Thurs Oct 23 -- Elections 9:30 am to 4:30 pm

All full-time undergrad Math students who did not get their Math Society fee refunded, and all part-time undergrads who paid their Mathsoc fee at the Mathsoc office (MC3038) are eligible to vote and be candidates. An ID card stamped 'MATH' must be presented at the polling station to allow a person to vote. Five signatures from members of a candidate's class constituency must be on his/her nomination form. A candidate can spend whatever he/she wants in the election, but must disclose all sources of funds and expenses. Math Society will reimburse a candidate's election expenses up to five dollars. More information on rules and procedures is available in the Math Society office.

The following positions are to be contested (Reps take office as soon as Mathsoc Council ratifies the election)

CLASS	SEATS	TERM OF OFFICE
1st yr Regular	3	until March 1976
1A Co-Op A stream	2	March 1976
(doing first work term in May '76)		
1A Co-Op B stream	3	July 1976
(have work-term in Jan 76)		
2nd yr Regular	2	March 1976
2A Co-Op A stream	1	July 1976
4A Co-Op B stream	1	March 1976

All Mathsoc members - Constitutional Amendment referendum.



black hole resisting

BURLOAF

I've noticed a message on the blackboard of the terminal room which reads "Bored with shooting down helpless klingons and library chess programs?" This sentence has two interpretations (no doubt intended by the author) including one with "Bored with library chess programs" and one with "Bored with shooting down helpless library chess programs". An interesting ambiguity due to the fact that English has dyadic infix operators (e.g., "and", "or", "but"), but no parentheses as found in computer languages with infix operator syntax (such as FORTRAN).

The hardwired terminals to the Honeywell (The ringling 2741's, the telerays and the hack room blues and beehive) have been coded with a new numbering system. Each terminal now has a shiny new number protected by a plastic shield riveted to the side of the terminal. This is the latest in a series of numberings. The hack room terminals were at one time labelled with three digit numbers punched on a labelmaker. After bored users had nicked them off, the terminals were labelled, but with a code indicating the terminal and its number. For instance, one terminal had a label "BLUE - 4" which some grafitti expert modified to "I - AM - BLUE - 4 - U". After that labelling, they went back to the three digit system, but with the labels in a hidden place on the terminal. Now they have two digit labels secured on well enough that users won't pull them off. 2741's do even better. Most have had tags for quite a while giving three separate numberings for the terminal, including a two digit code, a five digit code and another code of numbers and letters. Now they have been coded with the new two digit codes (which bear no relationship to the old two digit codes). As well as all these codes there is the six or seven digit number the Datnet has assigned to every terminal (it is the first thing that prints before you sign on).

Report by the roving Action Burloaf from Hackland:

It was bad news last week. The worst dishonour that could happen to a hack happened. In the Math Faculty's own version of the Nurnberg trials, one of the hacks was court marshalled by one of the MFCE big shots. The charge: Incurribleness. In the past, this user had committed several misdemeanors (as well as the odd felony). Previous attempts to correct this delinquent individual (including destroying his Honeywell account) had failed. It seems this person is just plain incurribles. So finally the ultimate punishment was executed. His name was deleted from the Hack list (in "/hacks"). It was almost like in the movies when a commanding officer rips the stripes off an offending military officer's uniform. Appeals by the soon to be ex-hack fell on cold ears. It was no use begging for mercy now. With a few deft keystrokes by the judge of this case, this person was demoted from status=hack to status=ordinary_user. The sentence was carried out in the teleray room by the judicial MFCE'er while a friend battled with the system to rescue messages from his mail box which the

mail system had just stepped on. The decision is likely to be appealed. As it stands now, though, there isn't even hope that the victim will be reinstated even as a probationary hack in the future. If you wish to find out the guilty defendant's userids, list the file "/incurribles" (use the "l" subsystem, not "list").

Now is the time to present this week's INTEGER_OF_THE_WEEK. Here it is:

5

5 has several interesting features. 5 is the smallest integer not to appear in Pascal's triangle other than in the two columns that are on the sides of the triangle. (which contain every integer). The digit 5 appears in many numbers, a lot of which are divisible by 5. 5 can be found in the formula for the golden ratio. It is a member of the fibonacci sequence. It is the smallest biggest member of a pithagorean triple (i.e., it is the largest member of the smallest pythagorean triple, namely (3,4,5). (A pythagorean triple is a set of three numbers A,B,C such that A squared + B squared = C squared.)) It is a palindrome when expressed in binary (101). This property is preserved when the number is converted to any even base. 5 is also the smallest positive number that is divisible by 5. To the ancient greeks, 5 symbolized marriage, for it was the union of 2 (the first even or female number) and 3 (the first odd or male number). Today, the adding of the 2 and 3 in this way to get 5 sometime results in a lot of little 1's. Many terminal users find the 5 useful, when used in conjunction with a shift key, to type in a percent sign. In fact, many people have decided that 5 is important enough to be honoured, so their employers allow them to stop work when it is 5.

This column has five errors

INFLATION

For those of you who remember the "good old days" when mathNEWS was founded, we present a chart of how things have changed. (For those of you weren't around, mathNEWS was founded in January of 1973).

Things that went up:

One imperial gallon of gas	5%
Cost of food	45%
Village residence fees	40%
Consumer price index	30%
Basic income tax deduction	15%
Federation fee	15%

Things that didn't change:

Mathsoc fees	
Tuition fees	
Mailing a letter for more money	

Things that went down:

Access to Honeywell(MFCE)	-10%
Library hours	-25%
Cost of a calculator	-70%
Access to IBM(CC)	-90%
Inside math security	-100%

This week we would like to apologise for the number of errors that appeared in last week's section. This was due to typographical errors. All of the errors are due to faults in MY solutions. NONE of the solutions to the problems were correct when I saw them last. However, due to the lack of intelligence of the editor we seemed to have misplaced the few correct solutions and typed up wrong one's. All blame can be put on me as editor of the Problems section who has full responsibility for everything under his control and for the mistakes I have done.

Well without further adieu we shall present the one and only, truly original

Some uneasy Problems

Since the set of all people who solved ques. #4 last week is the null set we are printing it again. So here it is

Q4. Proposed by S.C.L.

Let $P(x)$ be a polynomial with integer coefficients and let N be any positive integer. Also let α be a complex number such that $\alpha^N = 1$ but for $0 < i < N$, $\alpha^i \neq 1$.

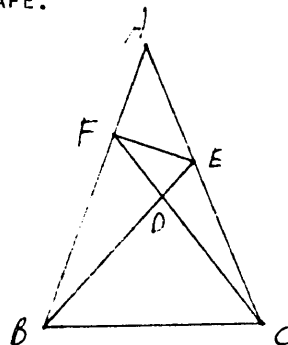
Prove that if $R = \prod_{i=1}^N P(\alpha^i)$, then R is an integer.

Here is Question #5 again with the appropriate diagram this time.

Q5. In the following diagram, not drawn to scale, find the ratio of

$$\frac{\Delta AFE + \Delta DBC}{\Delta BDF + \Delta DEC}$$

where (for example) ΔAFE represents the area of triangle AFE.



Q7. Given that $p(x)$ is a polynomial of degree at most n and $a \geq 0$ is a real number. If $f(x) = a^x + p(x)$ has $n+2$ real values of x such that $f(x) = 0$, how many more does it have?

(Hint- part of this problem is aimed at 1st year students).

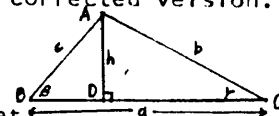
Q8. Prove beyond a doubt that $(-1) \times (-1) = (+1)$. (And it's not because $(-2) \times (-2) = (+4)$ and $(-1) \times (-1) = (+1)$ is half of that).

Q9. Prove that any two distinct Fermat numbers are relatively prime. (A Fermat number is a number of the form $F_n = 2^{2^n} + 1$, $n \in \mathbb{N}$).

Some Solutions to Some Easy Uneasy Problems

New, Improved Solution to Q #1.

Gauss once stressed the importance of giving several alternate solutions to a given problem. mathNEWS, in following his excellent advice, has decided to present another solution to Q #1. Last week we presented the incorrect solution (bet you didn't even notice!) so this week we will present the corrected version.



From the diagram, we see that $h = b \sin \gamma$, and $c^2 = h^2 + r^2 = h^2 + (BC - CD)^2 = h^2 + (a - b \cos \gamma)^2 = b^2 \sin^2 \gamma + a^2 + b^2 \cos^2 \gamma - 2ab \cos \gamma = a^2 + b^2 (\sin^2 \gamma + \cos^2 \gamma) - 2ab \cos \gamma$. Hence, $c^2 = a^2 + b^2 - 2ab \cos \gamma$ and the cosine law is proved.

At long last the solution to problem 2 has shown up. Since no correct solution was submitted I guess I get to keep the \$5000 prize, eh?

Solve the integral

$$I = \int \sqrt{\sec^2 x + k} dx$$

Here is the solution:

$$\begin{aligned} \int \sqrt{\sec^2 x + k} dx &= \int \sqrt{\frac{u^2 + k}{u^2 - 1}} \frac{1}{u} du \quad [u = \sec x] \\ &= \frac{1}{2} \int \sqrt{\frac{z+k}{z-1}} \frac{1}{z} dz \quad [u^2 = z] \\ &= -(k+1) \int \frac{v^2}{(v^2+k)(v^2-1)} dv \quad [v^2 = \frac{z+k}{z-1}] \\ &= \int \left(\frac{1}{2} \cdot \frac{1}{v+1} - \frac{1}{2} \cdot \frac{1}{v-1} - \frac{k}{v^2+k} \right) dv \\ &= \frac{1}{2} \ln \left(\frac{v+1}{v-1} \right) - \sqrt{k} \operatorname{arctan} \left(\frac{v}{\sqrt{k}} \right) + C \end{aligned}$$

Resubstitution gives

$$\frac{1}{2} \ln \left(\frac{v+1}{v-1} \right) = \ln \left(\sqrt{\sec^2 x + k} + \tan x \right) - \frac{1}{2} \ln(k+1)$$

$$\sqrt{k} \tan^{-1} \frac{v}{\sqrt{k}} = \sqrt{k} \tan^{-1} \left(\frac{\sqrt{\sec^2 x + k}}{\sqrt{k} \tan x} \right) = \sqrt{k} \cos^{-1} \left(\frac{\sqrt{k}}{\sqrt{k+1}} \sin x \right) + \text{const}$$

Consolidating Constants

$$\int \sqrt{\sec^2 x + k} dx = \ln \left(\sqrt{\sec^2 x + k} + \tan x \right) + \sqrt{k} \sin^{-1} \left(\frac{\sqrt{k}}{\sqrt{k+1}} \sin x \right) + k$$

Ques. #10: solution submitted by S.C.L.

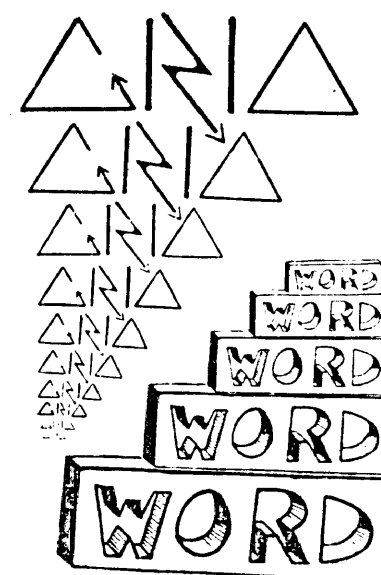
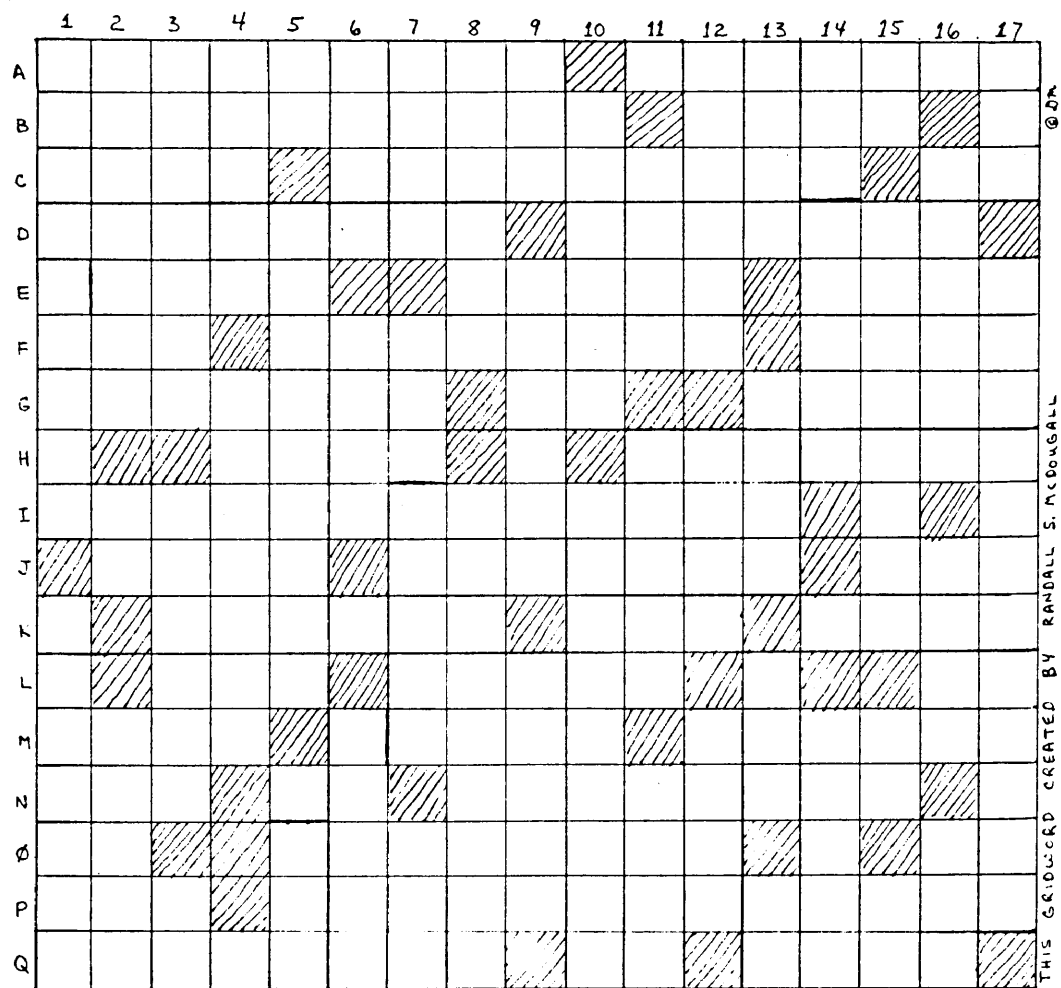
$$\text{let } g_n = \sum_{k=0}^n \binom{n-k}{k}$$

evaluating g_n this gives $g = g = 1$

$$\begin{aligned} g_{n+1} &= \sum_{k=0}^{n+1} \binom{n+1-k}{k} \\ &= \sum_{k=0}^n \left[\binom{n-k}{k} + \binom{n-k}{k-1} \right] \\ &= \sum_{k=0}^n \binom{n-k}{k} + \sum_{k=0}^n \binom{n-k}{k-1} \\ &= g_n + \sum_{j=0}^n \binom{n-j-1}{j} \quad \text{let } j = k-1 \\ &= g_n + g_{n-1} \end{aligned}$$

Pascal's Theorem
 $\binom{m}{-1} = 0$ by convention.

3 hence g_n satisfies the boundary conditions and recurrence relation and so the g_n 's are the Fibonacci numbers.



NAME: _____
 RANK: _____
 SERIAL NO: _____

REASON FOR WINNING: _____

REASON FOR LOSING: _____

WOMEN in mathematics

HYPATIA (370 AD- 415 AD)

Most of the information contained in this article was obtained from the excellent book 'Women in Mathematics' by Lynn M. Olsen, MIT Press 1974.

Hypatia was the first woman of mathematics about whom we have considerable knowledge. Despite the good fortune of her legendary talents, her beauty, and her celebrated accomplishments in mathematics and astronomy, the story of her eventual martyrdom reads like a classic Greek tragedy.

Hypatia was born around 370 AD. Her father, Theon, was a distinguished professor of mathematics at the University of Alexandria who was determined to produce a perfect human being. He became his daughter's tutor and she thus received a thorough training in arts, literature, science and philosophy. He also established a regimen of physical training to ensure that Hypatia's healthy body would match her swift, well-trained mind. She travelled abroad extensively, some say for as long as 10 years. While a student in Athens her fame as a mathematician became established and upon returning to Alexandria was invited to teach mathematics and philosophy at the university. She was a popular teacher and her home as well

as the lecture room was frequented by students from Europe, Asia, and Africa. She lectured on the techniques of Diophantus and was the author of several treatises, most of which were lost when the libraries of Alexandria were destroyed. Some sources credit her with the invention of the astrolabe and other devices for distilling water and determining the specific gravity of liquids. Her genius was so renowned that legend has it that letters addressed to 'The Muse' or 'The Philosopher' were delivered to her without question.

Alas her philosophical beliefs ran counter to the doctrinaire of the dominant Christian belief and priests considered her a heretic. When a systematic oppression of such heretics began about 412 AD it was not long before a mob of religious fanatics set upon Hypatia and tortured her to death, "...her flesh was scraped from her bones with sharp oyster shells and her quivering limbs were delivered to the flames".

In profundity of knowledge and variety of attainments she had few peers among her contemporaries and is entitled to a place among such luminaries as Ptolemy, Euclid, Apollonius, and Diophantus.

In a recent lecture, the professor had begun a description of "partial order", "simple order", "complete order", and so on, for about ten different kinds of "order". A student entered the class late and asked his neighbour as he sat down, "What the hell is he doing?"

The reply, "He's making chaos out of order."

To submit your solution:

1. Mail it to mathNEWS, MC3038, UofW
2. Put it in our mailbox in the mathSoc office, MC3038.
3. Put it in our mailbox which is located outside the third floor lounge.
4. Put it into a file on the 'bun, give mathNEWS read permission and tell us the filename.

To collect your t-shirt.

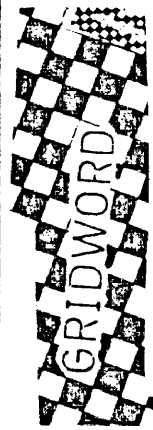
1. Show up to a mathNEWS production meeting (6 o'clock onwards on Tuesday night in MC3011).
2. Take the voucher you will be given to the mathSoc office to pick up your t-shirt.

To submit a gridword:

1. It should have no more than 20% blank squares.
2. It cannot have too many dangling letters in the opinion of our grideditor.
3. Follow the procedure for submitting a solution.
4. It is the duty of the creator to have the clues typed in on the 'bun when the gridword has been accepted. We may not print it until it has been typed.

- A1 people who make loud blood-curdling wails
A11 what smokers rarely use...
B1 places where butter & cheese are made or sold
B12 animal found in mathNEWS
C1 rise on hind legs
C6 inactive
C16 asymptotic limit of near (preposition)
D1 direction you go to reach T.O.
D10 Rabbit-ears
E1 an exclamation of discovery (2 words)
E8 possessed of protruding hearing organs
E14 one of an old Germanic tribe
F1 large furless male anthropoids
F5 prehistoric race of N. American Indians
F14 hot & cold fever
G1 parents (or mathNEWSers)
G9 exists
G13 two handed vessel
H4 found between foot & hip
H11 oblique
I1 born down with sudden anguish
J2 a combinatorial form of atlas
J7 sale to the highest bidder
J15 mathematical dessert
K3 choose
K10 small type sizes
K14 meals at the village
L3 waniti
L7 ancient Chinese rulers
L16 timesharing
M1 far
M5 a second year university student (2 words, Scottish)
M12 at once (archaic)
N1 you might call Alfred this...
N5 one who
N8 state of being knotty
O1 tutor
O5 clear & specific
O16 gee, nine
P1 a French summer
P5 what presidents have, if elected
Q1 make harmless again
Q10 MOTHER!!
Q13 not closed

- A1 what you start doing when you find you wrote your exam in the wrong section
K1 one who changes
A2 folding does it
I2 sungod
M2 make joyful
A3 excuses
I3 whom a squirrel hones will find its nuts....
P3 shortened editor
A4 third from the sun
G4 musical inst. (Hawaiian)
A5 I (G3)
D5 the other half of mankind
N5 where Satan comes from (2 words, Lat.)
A6 flat land
F6 native minerals
M6 where you'd watch a bullfight
A7 former, earlier
F7 how to put a sign on a bulletin board (2 words)
O7 distant
A8 what a horse often is
I8 metallic element
A9 behold
E9 dibasic diatomic acid from fats
L9 in the crowd of
B10 traps
I10 a breathing organ for a mollusc
O11 to spread
H11 epidermisses
V11 other (span.)
A12 pieces
H12 people born during summer exams
M12 on the ocean
A13 half a suicide
G13 moreover
L13 Dominion Letterers Inc.
P13 our capitol (prov.)
A14 what you do if you don't succeed (2 words)
M14 type of poker n-jineers like
A15 concerning
D15 a type containing more than one letter
M15 what joy and a story have in common
P15 old English
C16 perceptive
J16 N5 (span.)
O16 hotel(?)
A17 but, however, nevertheless
E17 what a guillotine promotes



GRIDCOMMENT

Attention all subscribers. The next mathNEWS production meeting is not until October 21. That means that you will be able to submit an answer to this week's gridword (the next office and our subscription editor willing). We will also take all of the correct solutions that arrive too late and put them aside. At the end of the term we will draw one name from all the correct solutions and that lucky person will win a t-shirt. To be eligible for this draw the solution must be postmarked not later than the date of the next issue.

This week as gridword editor it is my pleasure to announce the occurrence of a miracle. The winner to last week's grid is - ta da - Mark Brader. We had 3 correct solutions and one plea for a t-shirt. The unsuccessful applicants were Dave and John MacDonald.

Now for this week's comments. To Ray B. who only filled in 13 squares and then asked "do I win?" - NO. To Mark - you can finally come to a mathNEWS production meeting and pick up your t-shirt voucher. To Cathy M. who doesn't like to see her name in the gridcomment - Here it is again. 'S nice! Finally, to Dave and John - keep trying. If Mark B can win, anyone can.

MYTH ETICS

2 MATHIES SLAUGHTERED IN GRIDIRON ACTION DAVE WRIGHT GETS SWELLED HEAD AFTER SCORING I.D.

With 2 minutes to go in Tuesday's MATH - ESS football game, it was all over. Not because the score was that one sided, but because the lines on the field couldn't be seen for all the blood. The blood was a direct consequence of a head on collision between MATH's 2 defensive safeties DAVE WRIGHT and PAUL NORBLE as they were trying to intercept an errant, low flying pass.

With the MATH back-field lying collectively in a heap on the ground, the ESS'er caught the pass for the touchdown that put the game out of reach. "KAPPIE" tried to get a nurse from HEALTH SERVICES to come over to look at the mess lying on the Village Green, but was greeted with locked doors. (He should have known there's no such thing as medical help on this campus after 6:00 p.m. Uncle Billy Davis doesn't really care if a few students die on campus because of budget cut-backs at Health Services, it means a savings of his precious BIU's with a few less students).

Eventually Miles arrived with his car and physical resources arrived with their shovels, the mess was scraped up, placed in the car and taken to K-W Hospital.

At the time of the mess MATH had been on the move. Just previously they'd sacked the ESS quarter-back twice, had nailed the punter for a safety touch and would have taken the ball over at center-field on the next play if the incident had been avoided.

Hopefully both players will be off the critical list and ready to play in the next game which will be Tuesday Oct. 14 at 5:45 on the Village Green. It will feature our new and improved defensive techniques.

HOTDOGS CO-ED WATERPOLO SCORE 6-5

That's right the score was 6-5 for the Turkeyville turds or something similar (who are the old History Society hackers, that graduated, flunked out or just hung around). But that wasn't the score of the game that was the number of players each team could manage to muster up. After a massive recruitment campaign we managed to pick up another 2 girls and 2 guys, from the teams just leaving the pool and were able to play.

Among the people conspicuously noticable by their absence were:
Marilyn - "I really don't feel like making another trip over to the campus today".

A person who wishes to remain anonymous (lets call her Miss X) who was studying for an Algebra mid-term (that's sort of a crappy excuse for missing water-polo, get your priorities straight girlie).

Another person who wishes to remain anonymous (lets call her Miss Y, but who is actually Irene, of 54 Norman St., Waterloo, Ontario, #888-8888) who didn't want to get her hair wet because she had a hot date at 9:00.

Cathy Scott - who wasted her time at some lab or something.

Dave Maven - previously occupied by a certain miss.

After trading our no-star goalie SCROOGE to ENGLISH 251 (theory of criticism) for a bottle of Muscatel, the season was off to a flying start. It took Lorraine less than one (1) game this year to score her first goal (if you'll remember last year it took her until the second to last game of the season to score a goal, although it took us until then to convince her the idea of the game was to score goals, along with trying to score with the guys). As usual Tony scored about a thousand goals on offense and stopped about a thousand when he was in net. As a surprise this year, it looks like DRYDEN (the president of Mathsoc) may have finally gotten the hang of the game after only 3 years, as he was a threat not only to his own life, but a threat on goal too (although he did pull a few RONNIE ELIS type plays - deeking the goalie out of the net, shooting, and hitting the goalkeeper square in the forehead).

The final score was HOTDOGS 131, Turkeyville turds 13. I really hope to hell the rest of you people show up next week, remember I can slander you worse if you don't show up because I won't have seen anything good on which to base this shred of truth (and no that was not a veiled threat - I don't need no veils).

Dave do you want to stop scheduling your dates for Tuesday night, we need you and the miss again this year.

TRAGEDY jlong reports:

As you may realize last issue's article was rather harsh. Many of my complaints were about policy matters. I took strong positions on a number of issues. However others did not agree with my decisions as is their right, and I was opposed and sometimes defeated in council. I don't regret the positions I took as I feel that they were right ones.

This does not reflect on the personalities of my some-time opponents. Mr. Shortall is a decent person and he, as well as Shane Roberts and Art Ram, works hard at his jobs. He is a good President in dealing with the administration and as far as his work with OFS goes. I feel more society liaison by him and more dealing with his constituents would help. Also the use of more publicity would help both Shortall and the Federation.

I have tried to talk with Shortall recently and find more common ground with him. I still would like to get my ideas implemented, but I realize that I should try to aid Shortall more. I originally supported him for President because at that time I agreed with his policies. I also realize that there are very few people around who would be a good Federation president in the near future.

I feel it is time to try to put aside personal goals for now and work for the general good of the students. That will mean supporting Shortall on stands that I may not personally like. If however I feel he or anyone else in the Federation is not acting in your interest I shall point it out. I however need your response, and only if you contact me (MathSoc 3038, Fed Office Campus Centre, ext 2495) can I know how you feel and act for you.

math ETICS

mathies humiliate

the vincible slowpitch
team strikes again

lakeshore

Last Saturday the Math slow-pitch team played their final game of the 1975 season. Before a standing room only crowd at Columbia field, the Mathies completed a season sweep over the Lakeshore Lakers by destroying them 23 - 15.

It has been said that the key to victory in baseball is for a team to get its lead-off hitters on base. Math consistently accomplished this inning after inning as not only did the top of our batting order get on base, but they usually scored. Math built up an early lead and continued to increase it till the end of the game. Math's sparkling play in both the field and at bat can be credited for the victory (also the other team was the worst collection of ball players our team has faced yet). Another important factor was the alert base running of both Irene and X, as time and time again they were somehow safe on plays which looked like sure outs. (In other words the Lakers wouldn't be able to get Dumbo the elephant out on a bunt back to the mound.)

Recently rumours have circulated the hallowed halls of the Math Building that perhaps Math's slow-pitch team was having a poor season. Well at last the season is over and I can put your minds at rest by presenting the following information. Here are the facts: Math only lost three games in the entire season. Not only did we win the opening game, but we also finished with a victory. Between these two games we lost only three of all the games we played. Math was not beaten more than once by any team in the league. This is an astounding record when it is considered that none of the other nine teams in the league were able to win more than five games all season. All in all Math had a great year.

MATH BASKETBALL

There was a double screw-up over the schedule. First, MATH B was put on Monday nights instead of Sundays. Then they were switched with a village team. Then both teams showed up for the game on Sunday and they let the village team play. So, MATH B had to play their first game on Monday, which many players couldn't make. Anyway, from now on MATH B will play on SUNDAYS. Sorry about the problems but everything possible was done to straighten it out. The problem lay with the village team captain who didn't tell anyone about the switch and took off on the weekend and a convenor who also didn't know.

VOLLEYBALL

Math's co-ed volleyball team played their first games of the season on Wednesday, October 1. Unfortunately, the volleyball games are played on Wednesday nights, so that the reporting of them in mathNEWS (if this reporter happens to feel like doing it on any particular night) will lag by a week since this illustrious fortress of literary and journalistic skills is put together on Tuesday nights. Anyhow, in the first games the Mathies defeated some team called Southern Comfort twice by scores of roughly (nobody knows for sure) 15 to 11.

Math had a good turn-out, which was surprising since we didn't find out about the game until the night before. Math's collection of volleyballers played good if disorganized games, hardly typifying Math teams considering that we won.

The next game will be held October 5 against the East-eaters, on court 4 at 8:30. It was previously announced that this game would be played on October 8, but this was in error. The reason for this was that the captain of the team (the dunce) gave this reporter (and the team) the wrong date. Let's hope that this guy has his dates right from now on.

I hope everybody saw the posters which were to correct this mistake, since if anybody did show up, they would have found nobody (important that is) there. Anyway, be sure to turn out for the next game on the 15th.

Anyway, here are the results of the first games:

SUNDAY: MATH MUCKS - 44
OPTOMETRY - 48

MONDAY: MATH A - 24
GRIFFS - 25

MATH B - 25
E.S.S. - 52
MATH C - ?

SAUCE VALLEY - won by 8 points

Team shirts will be distributed to the team captains next week so players will have them for the second game. All shirts must be washed and returned to the captain at the end of the season.

Upcoming games are as follows:

SUNDAY | OCTOBER 19: MATH MUCKS V. HOOPING COUGH
Court 1 8:45 p.m.

MATH B V. (unknown now)

MONDAY OCTOBER 20: MATH A V. SLACKERS
Court 1 8:30 p.m.

MATH C V. V2 WEST
Court 3 8:30 p.m.

Players are responsible for knowing when and where games are. Schedules will be distributed by your captain at game 2 and you can always check the Mathletics Bulletin board on the third floor.

The Math faculty ball-hockey team lost its first game to the "L. C. Goosers" on Monday, by a score of 10-7

the GREAT PUMPKIN

Monday October 27

7:00 am Duplicate Bridge Tournament
M&C 3rd floor lounge
PRIZES

Tuesday October 28

12 noon Spelling Bee
Humanities 280
Prize is a ticket to the semi formal

Wednesday October 29

12 noon Slide Rule Contest
-- so pull your old slide rule out of
moth balls
Enter at Mathsoc (MC3038)
Prize is a ticket to the semi formal
8:00 pm Wine & Cheese Party
MC5136
Tickets 50¢ for members, 75¢ for others
Folk Singer

Thursday October 30

7:00 pm Free Film
AL 113

Friday October 31

8:00 am Hallowe'en Pub
MC 5136
75¢ with costume
\$1.25 without
Featuring Dr. Demento's favourite
records
Prize for best costume (you guessed it
-- another semi formal ticket)

Saturday November 1

Nitetime The Semi formal
Will be held at Concordia Club with
"Chelsea Morning".
Tickets \$10 Math - Arts
\$12 others
Sit down dinner of veal will be served
at 8:00 pm.
Dancing will be from 9:00 pm to 1:00 am.
Tickets on sale at Mathsoc and Artsoc
offices.

unclassifiable ADS

COMPUTER FOR SALE!!!
One rpc-4000 computer system with
8k by 32 bit drum processor
One 60cps/30cps paper tape reader punch
One 240cps/20cps reader punch
Two 10cps teletypewriters (not working)
Desk and chair

Lots of software including assembler and
extended fortran
All hardware documentation and all software
documentation except assembler

\$500.00 f.o.b. wilmington delaware usa
Estimate \$200.00 to move here --will help
Phone 885-3713 and ask for paul or leave a
message or mail osgerman on the 'bun

FOR SALE: 2 excellent tickets for BC vs.
Hamilton Football Game. Sunday Oct. 12 in
Hamilton at 2 p.m. Phone 745-3079

Third year co-op students require an
apartment or townhouse for the Winter term (Jan.
- Apr.) in Waterloo. Phone 1-416-767-9118
(Toronto) call collect if necessary.

Toronto: Winter term, For rent 2 bedroom,
furnished apartment near Jane/Bloor subway stop.
\$235 per month. Phone 1-416-767-9118.(Toronto)

FOR SALE: STEREO, AM-FM with automatic record
player and reel-to-reel tape recorder. Nice 50
inch walnut cabinet, two large 12 inch woofer
speakers and two mid-range horn tweeters. Very
good tone. \$195. Phone 743-0454

WANTED: Datsun 510 sedan, 1972 or 1973, 4-door,
standard, radio?, approx. 45,000 miles maximum,
undercoating preferred. Phone 743-0454

Wanted: Accomodation for 4 people in the
upcoming winter term (Jan. - May '76) Will sublet
or take over lease. Phone 416-634-2816 after
7:30 p.m. or write to: Michael Rose, 504 Indian
Rd., Burlington, Ont. L7T 3T3.

mathNEWS masthead 9.5welcome. It is now 5:49am. Everything else
is finished except for this.....we had enough filler for 10.5 pages but we decided to go with only 8. This leaves a lot of
stuff leftover. Like coldshack again, fun&games with calculators, a couple of dwg articles, CCourses, and a gouple of other filler
articles...we also managed to lose some mathletics ...but since we nearly ended up putting the gridwork on the front page we
decided that our next issue will be 2 weeks from now. We are a volunteer staffed paper which uses the 'bun to produce master
pages which Graphic Services will convert into 8 pages of 1200 copies on (sometime this week). The contents of this paper are
the responsibility of the mathNEWS staff.

We had article submissions from gregg andrews, (somebody else)....our staff consumed 5 dozen donuts in a space of 5 hours
with no coffee(or C&D manger said there were no pots)...we were in MC3038 until 8pm(someone club had occupied MC3011), then
in 3011 and then back to MC3038 at 5:45am. We were(at least most of us were): INGRID B SPLETTSTOESSER; LLAH A D; LLAGUODCM S
LLADNAR; DENNIS J MULLIN; jJLONG; GGDYDEN; R.MORRISON; MIKE DILLON; DAVE W GILLET; PETER RAYNHAM; G.PRUDENCE; JODY TRIVERS;
SLRISTO; TOM KEITH; BOB P. SANDIFORD; SYLVIA ENG; FRANK PINTERIC; BNMILLS; MATTHEW SMITH at this point our list runs out....
...but there were several other bodies who wandered in and out....

With a bit of luck we may get a mathNEWS t-shirt designed....(sometime)....be sure and get the last of mathSoc's 2.25
t-shirts before they are all sold or stolen...a new supply of t-shirts is being ordered now...our survey of students in
the last issue indicated that 11 students in every 12 want all math courses in first & second year to be term courses....
...there will be about 600 new t-shirts arriving in the future...there are some other tidbits but i can only rember one
more...the village photo club bought a new enlarger recently, the day after their darkroom was cleaned out illegally of all
equipment...talk of perfect timing...it is now 6:45am so i think i'll quit and make this the earliest issue of the term...
currently the mathSoc is occupied by 2 sleeping bodies, a jj who thinks he's awake, and the triple D... Dave, Don&Dennis who
each are typing away---2 on terminals(yes mathSoc has terminals in MC3038) and 1 on the masthead...as i look out the window
towards the east i see rosy red clouds indicating that dawn is approaching and that i'd better shutup.....

Don't forget that this is page 8 and that the next mathNEWS meeting will be on OCTOBER TUESDAY 21st in MC3011.

Nite!!!!!!!

0113701
TSS IS PRESENTLY BUSY
PLEASE CALL LATER.