Marceli Stark (Sept. 19, 1908–May 4, 1974) was a Polish mathematician who studied algebra and geometry. According to one of his students: "Mathematics in that group of infatuated young people was kind of a fever. We would get together at all times of day and night, talking incessantly [about] mathematics."

Stark survived imprisonment at several concentration camps during WWII, returning to Poland in 1946. There he began a long career in publishing, eventually heading the Polish Mathematical Society's publishing department.

Inside this issue:

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The Stark
Winter is Coming

News from the Reach: Update on the first photo

In honor of our 10th anniversary, we bring you an update from our very first issue (0.0).

Mike DeBlois and Megan (Foster) DeBlois: Megan and I are doing great! We graduated from Naz in 2006, got married in 2010. We have a daughter, Emily, who turned 2 in February. We are both math teachers at Fayetteville-Manlius. I teach 8th grade and Megan is at the high school. We still golf when we can and we are big SU basketball fans! We will always be thankful for our days at Naz and we try to recruit our students to go to Naz!

Math Night 2005 at Martha Brown Middle School in Fairport, NY, the first picture to appear in Our Newsletter

Kevin Laley: I got my Master's degree in Mathematics from the University of Rhode Island in 2008, and have been teaching high school math at Fairport HS since Sept 2008 (currently in my 8th year there). I love every minute of it. I taught Applied Calculus at Naz from Aug 2009–May 2013, and still teach in the Summer Start program there (Math 102 and Fundamentals of Math). I'm also part of the NYS Master Teacher Cohort at SUNY Geneseo and earned my National Board Certification in 2012. I got married this past August, and my wife and I spent an amazing week and a half in Hawaii right afterwards. We're currently living in Churchville — having purchased my grandparents' old house in the village this fall.

Angela (Tessoni) Messenger: I have been teaching high school math for the past nine years. I spent 5 years at Webster Schroeder High School, and am currently in my 5th year at Eastridge High School where I teach Algebra and Algebra 2. I spent 5 years as the Assistant Men's and Women's Tennis Coach at Nazareth from 2009–14. I currently live in Irondequoit with my husband, Jason, and my two beautiful daughters, Regan (3 years) and Finley (15 months).

Mike Middleton: Things in Alaska are well. We love it here. I just put in my applications for medical school. It's interesting that I'm finishing prereqs for med school and am taking a cell biology course with an alumnus of RIT and who also teaches math here for the University of Alaska Anchorage. Small world.

Kelly (O'Brien) Phelps: Kelly and her husband Mike live in Chicago with their sons Brody Michael and Dylan Daniel.

Diane (Lunman) Rieck: After graduating from Nazareth I studied Mathematics at the University of Nebraska–Lincoln while working as a graduate teaching assistant. I had the opportunity to teach various courses including Teaching Assistant for a Calculus Lecture, teaching a course on Algebra I, and more exciting classes like Geometry for Elementary Teachers, and Business Calculus. In teaching these courses you get a lot of freedom; they basically throw you in the trenches and say "GO TEACH" and it's fantastic! GO BIG RED! I had season tickets to Husker football games for two years, an experience that I could never get at Nazareth... It was INCREDIBLE! After a few years of this I decided that I was tired of school. So I graduated with my Master's (the original intent was to get a Ph.D.) and entered the workforce. My first job was as a Software Developer for a small workers' compensation company that I learned about at a job fair. This was the perfect first job for me. The company wrote all their own systems in an antiquated language so they only hired mathematicians because they didn't want any of the bad habits that programmers have. After a few months of training I was helping to maintain the systems in one of Warren Buffet's companies! While it was my dream job, I learned fast that there were no opportunities for advancing my career. The beautiful thing is that a degree (or multiple degrees) in mathematics is highly marketable. All the mathematics classes you take over the years are training you in logic, basic problem solving, and it never hurts to be good or comfortable with numbers! The truth is it's all about who you know and how you get your foot in the door, leveraging connections no matter how distant or random. Someone I knew passed on my resume to a colleague and I landed in my current role working for Allstate. Currently I am an analyst in the Life Underwriting Department. What that means is I run reports and analyze reports and come up with new and exciting ways to measure all the things we do. Life Insurance is all about the data and managing risk and mortality. It can sound quite boring but it's actually a lot of fun! Allstate is a fantastic company to work for; while there are certain downfalls about working for a large corporation the benefits are incredible. Most importantly I work with amazing supportive people. I currently live in Lincoln, Nebraska with my husband and 2 year old son. Lincoln is a beautiful, small city to raise a family. If you had asked this Connecticut girl 10 years ago if she would ever live in Nebraska the answer would have been "Where?". It's amazing where life can take you!

Megan Rogers is somewhere doing something great.

Jillian (Schneider) Stapleton is also experiencing greatness.

Lindsay (Perkins) Taube: I am in year 9 at Herkimer College. I teach various levels of mathematics – developmental and elementary Ed math included. Last year, I was promoted to Assistant Professor. My husband, Matt, and I were excited to welcome our son, Miles, this past June. He certainly keeps us very busy but we are so in love! Miles and our pups, Melody and LiaBella, enjoy taking us for walks and keep life fun!

From the Master of Coin: The $3 million grant

Need some money? Yousuf has some! But it's actually only $2,436,349 and it is part of a Division of Undergraduate Education grant that he – along with follow mathematicians Stan Yoshinobu and Julian Fleron – received from the National Science Foundation for their project entitled "Collaborative Research: PROfessional Development and Uptake through Collaborative Teams (PRODUCT) Supporting Inquiry Based Learning in Undergraduate Mathematics".

The money will be used to conduct several workshops, provide professional development for undergraduate mathematics faculty, and adapt and improve IBL materials. So if you or someone you know is teaching undergraduate mathematics and are interested, you may benefit from some of that sweet sweet money after all.

Council Chambers

In the spirit of "Hey, what should we put in the newsletter this time?" we decided to see how well you know the faculty. Can you guess whose office each picture is from? Your choices are **Dr. Daniel Birmajer**, **Dr. Cheri Boyd**, **Dr. Yousuf George**, **Dr. Nicole Juersivich**, **Dr. Matt Koetz,** and **Dr. Heather Ames Lewis**. Guest right will always be honored for those who enter these rooms.

HC SVNT DRACONES

This is a dragon curve, a fractal where each stage is made by taking a copy of the curve and adding a second copy perpendicular to the first. This diagram below shows the first five iterations and the ninth.
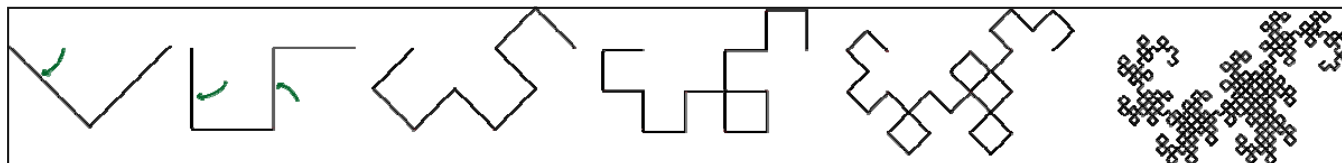
This dragon is on the Grand Gate of Ishtar, built in Babylon (present day Iraq) about 2500 years ago.
The photo is by Hahaha, posted on Wikimedia under Creative Commons.

These dragons are on the Nine Dragon Wall, built in Beihai Park, Beijing about 600 years ago.
The photo is by splitbrain, posted on Wikimedia under Creative Commons.
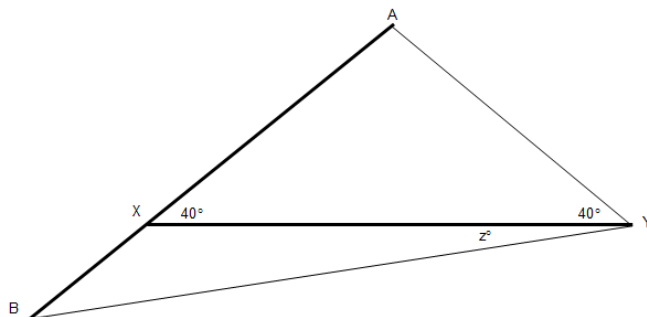
Problems

Solutions to Problems 10.0:

10.0.1: 7310 (86 years old in year $7396=86^2$)
10.0.2: 43 McNuggets
10.0.3: $2\sqrt{3}-3$

Problem 10.1.1: What is the circumference of a circle with diameter $10/\pi$?

Problem 10.1.2: If x is x% of y, and y is y% of z, what is $\sqrt{z}$?

Problem 10.1.3: If AB = XY in the diagram below left, what is z?

Send solutions, swords, articles, Exploding Kittens (the game, not the animals), interesting news, interesting mews, a thousand gold dragons, a single flying dragon, or suggestions to Heather (hlewis5@naz.edu) or Matt (mkoetz1@naz.edu).

A

X 40°   40° Y

z°

B