

Thank You!

As the fall term is coming to a close, in this final math newsletter of the term, we would like to extend our gratitude to some people who have made some noteworthy contributions to Union's math community this term.

- **THANK YOU, Professor Brenda Johnson**, for organizing a wonderful Undergraduate Math Seminar series this fall term!
- **THANK YOU, Professor George Todd**, for coordinating Union's participation in upcoming Putnam Exam and for organizing the many practice sessions to help participants get ready.
- **THANK YOU, Calculus Help Center tutors, Tom Harrison, Paige Isser, Jerry Ji, Celine Nguyen, Kallan Piconi, and Edwina Rasmussen**. You have helped many students this term. The Math Department and its students truly appreciate your efforts.

NOTE: The last night of the CHC this term is the last day of classes, Tuesday, November 13.

Some Good (Math!) Twitter Follows

Interested in getting some math news via Twitter? Do you want some more, fun, math problems to work on? Here are a couple people you might want to follow:

- Grant Sanderson (@3blue1brown). Sanderson maintains a website and a YouTube channel (all findable searching for "3blue1brown") on which he posts some really well-done, and interesting videos on math. He usually tweets about them when they become available.
- James Tanton (@jamestanton) [Adapted his wiki page] James Tanton is a mathematician who earned his PhD from Princeton in 1994. He is an award winning teacher, a scholar at the Mathematical Association of America, author of over ten books on mathematics, curriculum, and education, and creator of videos on mathematics on YouTube. On Twitter, Tanton is an avid promoter of math education.

Problem of the Newsletter – November 7, 2018

Last week's problem: Congratulations to **Khoa Ngo The** and **Hoang Tran** for submitting correct answers to last week's problem, and to everyone who contributed solutions to the Problem of the Newsletter this term – great job! As for last week's problem, a sample solution has been posted on the bulletin boards around Bailey Hall.

This week's problem: As a study break, have fun working on the following:

An integer $a_0 > 1$ is called **fantabulous** if the sequence a_0, a_1, a_2, \dots defined by

$$a_{n+1} = \begin{cases} \sqrt{a_n} & \text{if } \sqrt{a_n} \text{ is an integer,} \\ a_n + 3 & \text{otherwise} \end{cases}$$

is such that there exists a number A for which $a_n = A$ for infinitely many values of n . Determine the fantabulous integers.

Professor Friedman (friedmap@union.edu) will accept solutions through December 31, 2018

Turn the page to see the schedule of math finals.

Fall 2018: Math Final Exam Schedule

Course #	Course Name	Professor	Room	Day	Date	Time
MTH*100*01	Calculus with Precalc 1	Todd, G.	OLIN 115	Mon	11/19	8:30-10:30 AM
MTH*100*02	Calculus with Precalc 1	Rosenthal, K.	BAIL 106	Thu	11/15	8:30-10:30 AM
MTH*100*03	Calculus with Precalc 1	Todd, G.	OLIN 115	Mon	11/19	8:30-10:30 AM
MTH*110*01	Calculus 1	Jauregui, J.	OLIN 115	Tue	11/20	2:30-4:30 PM
MTH*110*02	Calculus 1	Jauregui, J.	OLIN 115	Tue	11/20	2:30-4:30 PM
MTH*110*03	Calculus 1	Khatami, L.	VART 204	Fri	11/16	2:30-4:30 PM
MTH*110*04	Calculus 1	Khatami, L.	VART 204	Fri	11/16	2:30-4:30 PM
MTH*110*05	Calculus 1	Zwicker, W.	BAIL 201	Fri	11/16	8:30-10:30 AM
MTH*110*06	Calculus 1	Hatley, J.	BAIL 100	Mon	11/19	11:30-1:30 PM
MTH*113*01	Acc Single-Variable Calculus	Klangwang, J.	OLIN 115	Mon	11/19	2:30-4:30 PM
MTH*113*02	Acc Single-Variable Calculus	Klangwang, J.	OLIN 115	Mon	11/19	2:30-4:30 PM
MTH*113*03	Acc Single-Variable Calculus	Khanmohammadi	VART 204	Mon	11/19	11:30-1:30 PM
MTH*113*04	Acc Single-Variable Calculus	Khanmohammadi	VART 204	Mon	11/19	11:30-1:30 PM
MTH*115*01	Calculus 3	Rosenthal, K.	BAIL 106	Tue	11/20	8:30-10:30 AM
MTH*115H*01	Enriched Diff Vector Calculus	Wang, J.	BAIL 102	Fri	11/16	8:30-10:30 AM
MTH*117*01	Calculus 4: Integral Vector	Johnson, B.	BAIL 100	Fri	11/16	8:30-10:30 AM
MTH*130*01	Ordinary Differential Equation	Friedman, P.	BAIL 100	Tue	11/20	8:30-10:30 AM
MTH*199*01	Intro to Logic & Set Theory	Tønnesen-Friedman, C.	BAIL 207	Thu	11/15	6:00-8:00 PM
MTH*199*02	Intro to Logic & Set Theory	Friedman, P.	BAIL 207	Thu	11/15	6:00-8:00 PM
MTH*219*01	Topics in Discrete Math	Johnson, B.	BAIL 102	Thu	11/15	8:30-10:30 AM
MTH*248*01	Intermediate Topics in Math	Khatami, L.	BAIL 201	Fri	11/16	11:30-1:30 PM
MTH*336*01	Real Variable Theory	Hatley, J.	BAIL 104	Mon	11/19	8:30-10:30 AM
STA*104*01	Introduction to Statistics	Oppenlander, J.	BAIL 100	Tue	11/20	11:30-1:30 PM



**GOOD LUCK ON
YOUR FINALS!**

