

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, Professors Leila Khatami and Jue Wang**, for organizing a wonderful Undergraduate Math Seminar series this fall term!
- **THANK YOU, Professors Ehssan Khanmohammadi and Jetjaroen Klangwang**, 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, Christos Kakogiannis, Celine Nguyen, Zack Porat, Arun Sitsabeshon, and Tina Tully**. 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 19.

Some Last News from Math Club and AWM, by Kallan Piconi '20

On Tuesday, October 29, Math Club and AWM hosted a dinner and discussion with the female math professors at Union. We would like to thank **Professor Gasparovic, Professor Wang, Professor Khatami, Professor Johnson, and Professor Tønnesen-Friedman** for joining us - they offered great insight into math pathways as well as the benefits of majoring in mathematics.

We look forward to seeing you at Math Club and AWM events next term.

Problem of the Newsletter November 18, 2019

Last week's problem: Congratulations to **Son Nguyen '23** for submitting a correct solution to the most recent 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: Let a, b, c, d be distinct integers such that the equation

$$(x-a)(x-b)(x-c)(x-d)-9=0$$

has an integer root r . Show that $4r = a + b + c + d$.

Professor Friedman (friedmap@union.edu) will accept solutions through December 31, 2019.

Study Tips from an Old Wall Street Journal Article

How to Ace That Test

1 Review the hardest material right before bedtime. Going to sleep right away consolidates the information in your memory.



2 Turn off music, text messages, TV and email. Distractions make you less likely to remember material you were studying at the time.



3 REPEAT



Test yourself repeatedly. Students remember more when they force themselves to retrieve concepts than when they simply re-read the textbook or their notes.

4 Eat oatmeal for breakfast. Balanced, slow-digesting diet provides a sustained flow of glucose to the brain.



Fall 2019: Math Final Exam Schedule

Course #	Course Name	Professor	Room	Day	Date	Time
MTH*054*01	Number Theory	Rosenthal, K.	BAIL 106	Thu	Nov 21	8:30-10:30 AM
MTH*100*01	Calculus with Precalc 1	Cervone, D.	KARP 005	Mon	Nov 25	8:30-10:30 AM
MTH*100*02	Calculus with Precalc 1	Cervone, D.	KARP 005	Mon	Nov 25	8:30-10:30 AM
MTH*100*03	Calculus with Precalc 1	Friedman, P.	BAIL 100	Tue	Nov 26	8:30-10:30 AM
MTH*110*01	Calculus 1: Differential Calc	Lesh, K	VART 204	Mon	Nov 25	8:30-10:30 AM
MTH*110*02	Calculus 1: Differential Calc	Zwicker, W.	VART 204	Fri	Nov 22	11:30-1:30 PM
MTH*110*03	Calculus 1: Differential Calc	Lesh, K	VART 204	Mon	Nov 25	8:30-10:30 AM
MTH*110*04	Calculus 1: Differential Calc	Zwicker, W.	VART 204	Fri	Nov 22	11:30-1:30 PM
MTH*110*05	Calculus 1: Differential Calc	Khanmohammadi, E	BAIL 102	Fri	Nov 22	8:30-10:30 AM
MTH*113*01	Acc Single-Variable Calc	Rosenthal, K.	BAIL 106	Mon	Nov 25	8:30-10:30 AM
MTH*113*02	Acc Single-Variable Calc	Gasparovic, E.	OLIN 115	Mon	Nov 25	8:30-10:30 AM
MTH*113*03	Acc Single-Variable Calc	Gasparovic, E.	OLIN 115	Mon	Nov 25	8:30-10:30 AM
MTH*113*04	Acc Single-Variable Calc	Tønnesen-Friedman, C.	BAIL 207	Tue	Nov 26	11:30-1:30 PM
MTH*115*01	Calculus 3: Diff Vector Calc	Klangwang, J.	BAIL 201	Mon	Nov 25	8:30-10:30 AM
MTH*115H*01	Enriched Diff Vector Calc	Hatley, J.	BAIL 104	Fri	Nov 22	8:30-10:30 AM
MTH*117*01	Calculus 4: Integral Vector	Wang, J.	BAIL 100	Fri	Nov 22	8:30-10:30 AM
MTH*197*01	Discrete Math for Comp Sci	Friedman, P.	BAIL 100	Mon	Nov 25	8:30-10:30 AM
MTH*199*01	Intro to Logic & Set Theory	Cervone, D.	BAIL 207	Fri	Nov 22	8:30-10:30 AM
MTH*199*02	Intro to Logic & Set Theory	Khatami, L.	BAIL 100	Tue	Nov 26	11:30-1:30 PM
MTH*219*01	Topics in Discrete Math	Klangwang, J.	BAIL 102	Thu	Nov 21	8:30-10:30 AM
MTH*336*01	Real Variable Theory	Khanmohammadi, E	BAIL 102	Tue	Nov 26	8:30-10:30 AM



**GOOD LUCK ON
YOUR FINALS!**

