

UNDERGRADUATE MATHEMATICS SEMINAR

No seminar during this week of final exams. The seminar will resume next term!

Fall 2007 Math Final Exam Schedule

Thursday, November 15, 9:00 - 10:30 AM

IMP*111*01	Int Math/Physics (Part 1 of Exam)	Black and Surman	NWSE 112
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Thursday, November 15, 9:00 - 11:00 AM

MTH*054*01	Number Theory	Friedman	BAIL 102
MTH*219*01	Topics in Discrete Math	Taylor	BAIL 100

Friday, November 16, 8:30 - 10:30 AM

MTH*115*02	Calculus 3	Niefield	BAIL 100
MTH*336*01	Real Variable Theory	Zwicker	BAIL 102

Monday, November 19, 8:30 - 10:30 AM

IMP*111*01	Int Math/Physics (Part 2 of Exam)	Black and Surman	NWSE 112
MTH*055*01	Ancient Greek Mathematics	Barbanel	BAIL 201
MTH*197*01	Discrete Math for Computer Science	Niefield	BAIL 102
MTH*199*01	Intro to Logic & Set Theory	Cervone	BAIL 207

Monday, November 19, 11:30 - 1:30 PM

MTH*115H*01	Enriched Differential Calculus	Zwicker	BAIL 207
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Monday, November 19, 2:30 - 4:30 PM

MTH*117*01	Calculus 4	Zimmermann	BAIL 106
MTH*330*01	Complex Analysis	Barbanel	BAIL 100

Tuesday, November 20, 8:30 - 10:30 AM

MTH*115*01	Calculus 3	Blue	BAIL 100
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Tuesday, November 20, 11:30 - 1:30 PM

MTH*100*01	Calculus with Precalculus 1	Johnson	SSCI 103
MTH*100*02	Calculus with Precalculus 1	Johnson	SSCI 103
MTH*110*01	Calculus 1	Plofker	OLIN 115
MTH*110*02	Calculus 1	Plofker	OLIN 115
MTH*110*03	Calculus 1	Taylor	BAIL 100
MTH*110*04	Calculus 1	Reynolds	BAIL 104
MTH*113*01	AP Calculus	Wang	SSCI 104
MTH*113*02	AP Calculus	Wang	SSCI 104
MTH*113*03	AP Calculus	Friedman	BAIL 102
MTH*113*04	AP Calculus	Zimmermann	BAIL 106

This is the last
newsletter of
the term!

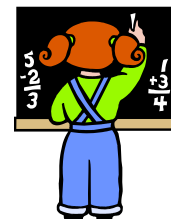
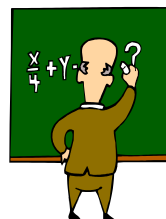
Good luck on
your finals!

Thank you, CHC Tutors!



The last night that the Calculus Help Center will be open this term is **Monday, November 12**. Please join me in thanking all the tutors

- Michael Bono
- Kate Colantuono
- Ronghua Dai
- Michael Doctor
- Laura Hutchinson
- Nikhil Patel



for their contributions to the success of this valuable resource.

Problem of the Newsletter: November 12, 2007

Congratulations to **Brandon Bartell, Susan Beckhardt (SB), Dana Cartwright, Ronghua Dai, Deirdre Finnegan, Michael Gillin, and Schuyler Smith** for submitting correct solutions to last week's problem of the newsletter.

Last week's problem: Jack, Janet, and Chrissy meet at their corner coffeehouse and buy half a dozen doughnuts. Each friend always tells the truth or always lies. Jack says that he got one doughnut, but Janet says that Jack got two, and Chrissy says that Jack got more than three. On the other hand, all three friends agree that Janet got two. Assuming that each friend got at least one and that no doughnut was cut and divided, how many doughnuts did each friend get?

Solution (due to SB): Since all three agree on Janet's amount, they must all be lying or all telling the truth. But since they disagree on Jack's amount, at least some must be lying, so they all are. Thus, Jack must have had exactly three doughnuts. There are three doughnuts left, and each must have at least one, so either Janet got two and Chrissy got one, or Chrissy got one and Janet got two. Since all three lie that Janet got two, Janet must have gotten one, which leaves two for Chrissy. So, in total, Jack got three doughnuts, Chrissy two, and Janet one.

Here is this week's problem (Taken from an article in FOCUS, a news magazine of the MAA):

Part 1: In the number spiral below, give the next *three* numbers to the right of 11, 2, 1, 6, 19.

Part 2: Find (with proof) a general formula for the numbers in the sequence 1, 6, 19, ... that appear as part of row three as shown.

13	14	15	16	17			
12	3	4	5	18			
11	2	1	6	19	<input style="width: 20px; height: 20px;" type="text"/>	<input style="width: 20px; height: 20px;" type="text"/>	<input style="width: 20px; height: 20px;" type="text"/>
10	9	8	7	20			
		...	22	21			

Professor Friedman will accept solutions to this problem until 12:00 noon Friday, November 16th. Email your solution to him (friedmap@union.edu) or put it in his mailbox in the Math Department's office on the second floor of Bailey Hall.