Math bootcamp  
August 16 to August 19, 2010

Instructor: Yuexiao Dong  
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Class: A605, Alter Hall; Monday (Aug 16) to Thursday (Aug 19)  
Morning session, 9:30 am-11:30 am; afternoon session, 1:00 pm-3:00pm.

Office hours: 3:00 pm-4:00 pm, Monday to Thursday; 10:00 am-12:00 pm  
Friday, or by appointment.

Course material:  
Available online at http://astro.temple.edu/~ydong/teaching.html

Course description:  
The objective of this bootcamp is to go over some basic topics in calculus  
and matrix algebra. These tools may be very useful for your quantitative  
graduate level courses. Here is a tentative schedule:

Monday, we will cover exponents, logarithms, graph of functions, derivatives  
and integrals.

Tuesday, we will cover series and convergence tests.

Wednesday, we will cover matrix multiplication, eigenvalue decomposition.  
Thursday, we will talk about combination and permutation, counting prob-  
lems, and some applications of math in statistical problems.

Evaluation:  
To evaluate the effectiveness of this short course and better serve the students  
in the future, we are going to have a quiz at the beginning of the Monday  
session and a takehome exam after the Thursday session.

You may drop the exam at my office (326 Speakman Hall) any time before  
5:00 pm, Aug 23.