

L'Augarithms



vol. 24.09

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March 2, 2011

Mathematics Colloquium Spring Lineup

Colloquia are typically held Wednesdays 3:40—4:40 in Oren 113. Highly sought-after refreshments are served.

Jan.	19	Infinite Secrets: The Genius of Archimedes
Feb.	2	Ken Kaminsky, Augsburg College
	16	Loren Larson, St. Olaf College
	23	Nancy Steblay, Augsburg College
Mar. →	2	Jiang-Ping Chen, St. Cloud State ¹
	23	Alicia Johnson, Macalester College
Apr.	6	Doug Dokken, University of St. Thomas
	20	Talks by Students

¹This week's colloquium

Trigonometric Tables in China—

Jiang-Ping Jeff Chen, St Cloud State University

The Evolution of the Principles in Making the tables

The stories of the Jesuits in 17th-century China, the science and mathematics they introduced, their strategy of proselytizing with scientific knowledge, and how they gained footing in the Chinese court through more accurate predictions of solar (Colloquium Speaker — *continued on other side*)

Best School Humor

This came under the heading: How to fail a test with dignity.

Explain the phrase 'free press.'

When your mum irons
trousers for you.

Best Church Bulletin Humor

The following announcement appeared in a church bulletin, or was announced at a church service:

Next Thursday there will be tryouts for the choir. They need all the help they can get.

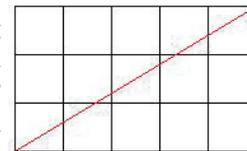
The Caption Contest

The *caption contest* is still alive. There has been much *talk* but little *action* on who will submit the best caption to the crime scene photo (see vol. 24.08, and photos hanging in the department area) and win the grand prize of **100 ft. of genuine yellow an black crime scene tape** which sits as we speak on the editor's bookshelf unclaimed and unfurled. Submit your caption as you would a solution to the POTW or PZOTW.

Problem of the week...

The POTW from vol. 24.08 was correctly solved by **Blake Vliet**, who was also the only solver of the POTW from v24.07. Here is the new POTW.

Take a checkerboard with n rows and m columns, with n and m relatively prime (i.e., having no common factors). Through how many squares does a line going from one corner of the board to the opposite corner pass? For example, a diagonal on a 3 by 5 checkerboard passes through 7 squares.



Your solution should provide an answer that is a function of the two variables n and m . Please explain your answer completely. Why should n and m be relatively prime?

❖ Reprinted with permission from Bradley U's old 'POTW' page <<http://hilltop.bradley.edu/%7Edelgado/potw/potw.html>>

Puzzle of the week...

Nice solutions to the PZOTW from v24.08 came from **Blake Vliet** and **Munawar Syed Hussain**. They both got 76 years of age.

There are 100 marbles in five bags. If the first and second bags contain 52 marbles between them, the second and third bags together contain 43, the third and fourth contain 34, and the fourth and fifth contain 30 marbles, how many marbles are there in each bag?

❖ Submit puzzle & problem solutions to kaminsky@augsborg.edu, or under Ken Kaminsky's door at SCI 137E, or in the puzzles and problems box just outside of Su's office.

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