

I U P U I
MATH CLUB TEASER #9

January 23, 2009
(due January 30, 2009)

In an old and much worn book of travels, Felix came once upon the description of a remarkable land. According to the narrator, the Insular Territory of Erlangen consisted of ten islands connected in the following manner. Bridges led directly from five of the islands to the mainland. Moreover four of the islands had four bridges leading from them, three of the islands had three bridges leading from them, two of the islands had two bridges leading from them, and one island could be reached by a single bridge.

Felix read this description with keen interest until suddenly he perceived that the whole thing was a hoax, and that no such place could possibly have existed.

What did he notice?

The IUPUI Math Club invites everybody to submit solutions to its weekly recreational mathematics problem. Interested individuals and teams of up to four participants must submit a cover sheet (available at jagmath.usg.iupui.edu) together with their written solution. At the end of the semester, every IUPUI student that sent a correct solution will receive a certificate of merit. Prizes will be distributed among the IUPUI undergraduate teams that submit the most correct solutions.

Solutions are due one week after each problem is posted, and should be faxed to (317) 274-3460, dropped off in person at LD 270, or sent by campus or U.S. mail to:

Math Club Teaser
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