

I U P U I
MATH CLUB TEASER #7

November 14, 2008
(due November 21, 2008)

Compete on December 5 in the first annual

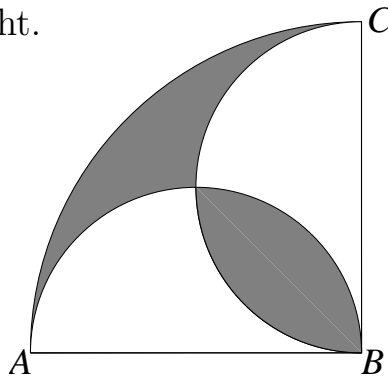
MATHLETIC COMPETITION

PRIZES! FUN!

**The registration form is available on the Math
Club website (see below).**

The theodolitic Professor Zerep is surveying a plot of land in the form of a quarter-disk ABC . Two half-circles with diameters AB and BC are drawn, and the Professor immediately exclaims: “*Those two shaded regions have the same area!*”

Show that the Professor is right.



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
Dept. of Mathematical Sciences
IUPUI, LD-270
402 N. Blackford Street
Indianapolis, IN 46202