

I U P U I
MATH CLUB TEASER #54

November 19, 2010
(due December 3, 2010)

Miles is bored, so Squanto lets him play with his new computer, the Turing-3000XL. Problem is, Miles cannot log in:

“It wants four passwords!”

“Ah, yes. You have to enter the four numbers.”

“What numbers?”

“You know, the passwords. . .”

“But what are the numbers?”

“I forgot.”

After a few tense seconds, Miles insists “So what do I do?”

“You could figure out what the numbers are.”

“How?”

“The numbers form two fractions whose cubes add up to six.”

“Great! . . .”

Can you help Miles log in?

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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