

Math Weekly Problem Competition

**Friday, November 14, 2014**

Adolp choose a real number  $a$  at random in the interval  $(0, 8)$  and Bertha independently chooses a real number  $b$  in the interval  $(0, 4)$ . What is the probability that  $a^2 > b^3$ ? (Choosing “at random” in an interval means that the probability of choosing from any subinterval is proportional to the length of the subinterval.)

**Join the competition!**

The Department of Applied Mathematics and IIT SIAM Student Chapter is organizing a weekly campus-wide math competition for undergraduate students.

- ▷ Every Friday 3pm, visit <http://math.iit.edu/~weeklyproblem> to view the problem of the week
- ▷ Submit the solution to [weeklyproblem@math.iit.edu](mailto:weeklyproblem@math.iit.edu) by Wednesday 5pm
- ▷ The author(s) of the first correct solution(s) will receive a monetary prize

For more details view the official web site <http://math.iit.edu/~weeklyproblem>.

Become a Math Club member and receive problem notifications by email.

Good Luck! Have fun and enjoy Mathematics!