

Math Weekly Problem Competition

Friday, October 31, 2014

Let

$$f(t) = \int_1^t \int_2^x \int_3^y g'(z) dz dy dx,$$

where  $g$  is a function with a continuous derivative. Express  $f''(t)$  as simply as you can in terms of  $g$ .

**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!