

Math Weekly Problem Competition

**Friday, February 21, 2014**

A car travels from point  $A$  ( $x = 0$ ) to the point  $B$  ( $x = L$ ). We know the car velocity  $v$  as the function of the distance  $x$  for any  $0 \leq x \leq L$ . Find the formula for computing the total time the car takes traveling from  $A$  to  $B$ . Show the details of your derivation. Bonus point: do you need any additional assumption for your formula to be valid?

**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!