

Weekly Problem Competition

Friday, April 25, 2008

The sequence $\{a_n\}_{n \in \mathbb{N}}$ of real numbers satisfies the following relations:

$$a_1 = 1, \quad a_{n+3} \leq a_n + 3, \quad a_{n+2} \geq a_n + 2, \quad n = 1, 2, \dots$$

Find a_{2007} .

Remarks:

This is the last problem for this semester. The competition will continue next semester.

The rules of the competition <http://www.math.iit.edu/~weeklyproblem>

You have to submit the solution by email, to weeklyproblem@math.iit.edu

Please feel free to tell to any undergraduate student about the competition.

Good Luck !