

Submit your solutions before the finishing date to the address: ProbOfTheWeek@utdallas.edu

Problem of the Week

Finishing date: 04/06/2016

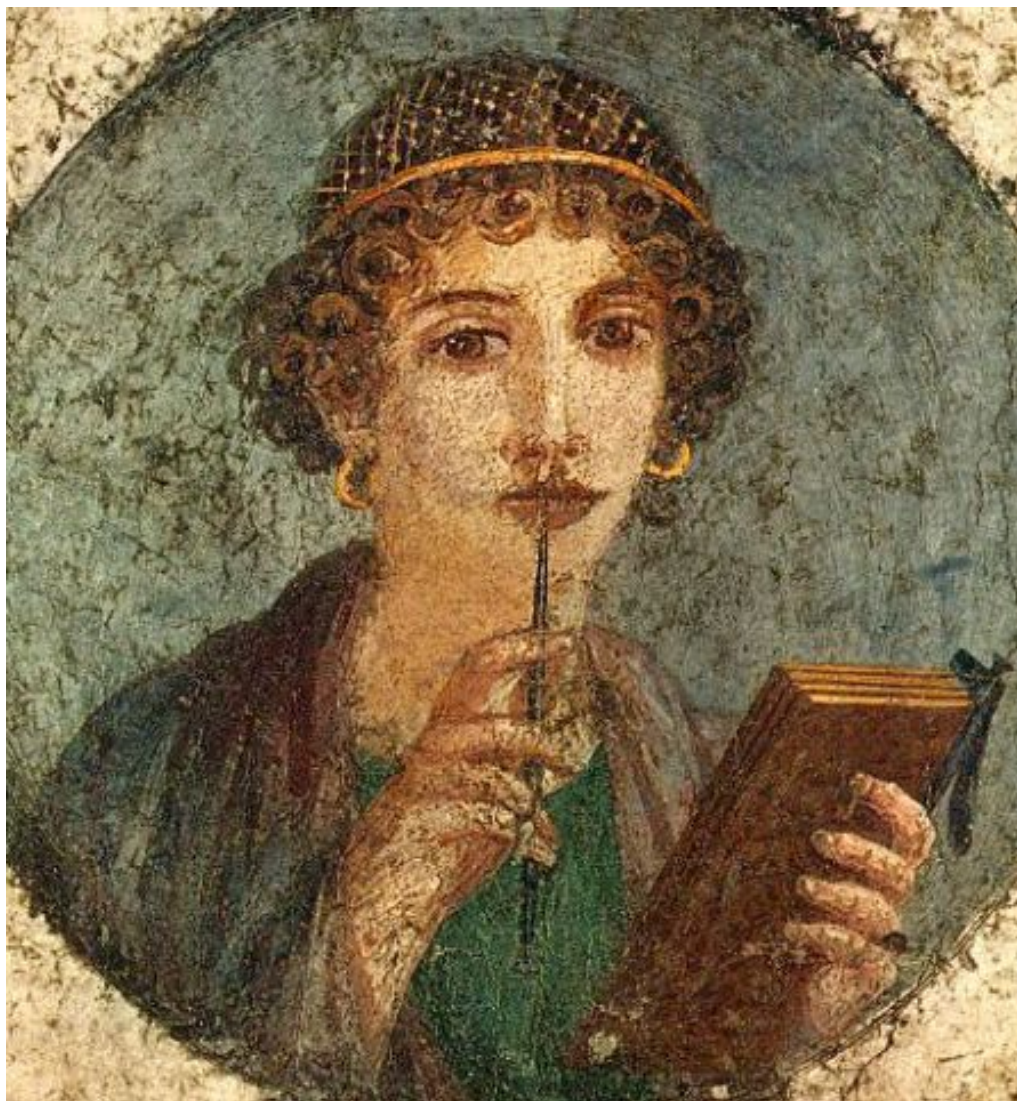
Let a_1, a_2, \dots , be a nonincreasing sequence of positive real numbers, i.e. $a_j \geq a_{j+1} > 0$. Assume also that $\sum_{n=1}^{\infty} a_n = \infty$. Find the following limit

$$\lim_{n \rightarrow +\infty} \frac{a_2 + a_4 + \dots + a_{2n}}{a_1 + a_3 + \dots + a_{2n-1}}.$$

Previous problem winners:

Victor Sterling

(the only correct solution among several submissions)



All the information about the Problem of the Week challenge can be found at <http://ProbOfTheWeekUTD.wordpress.com>

