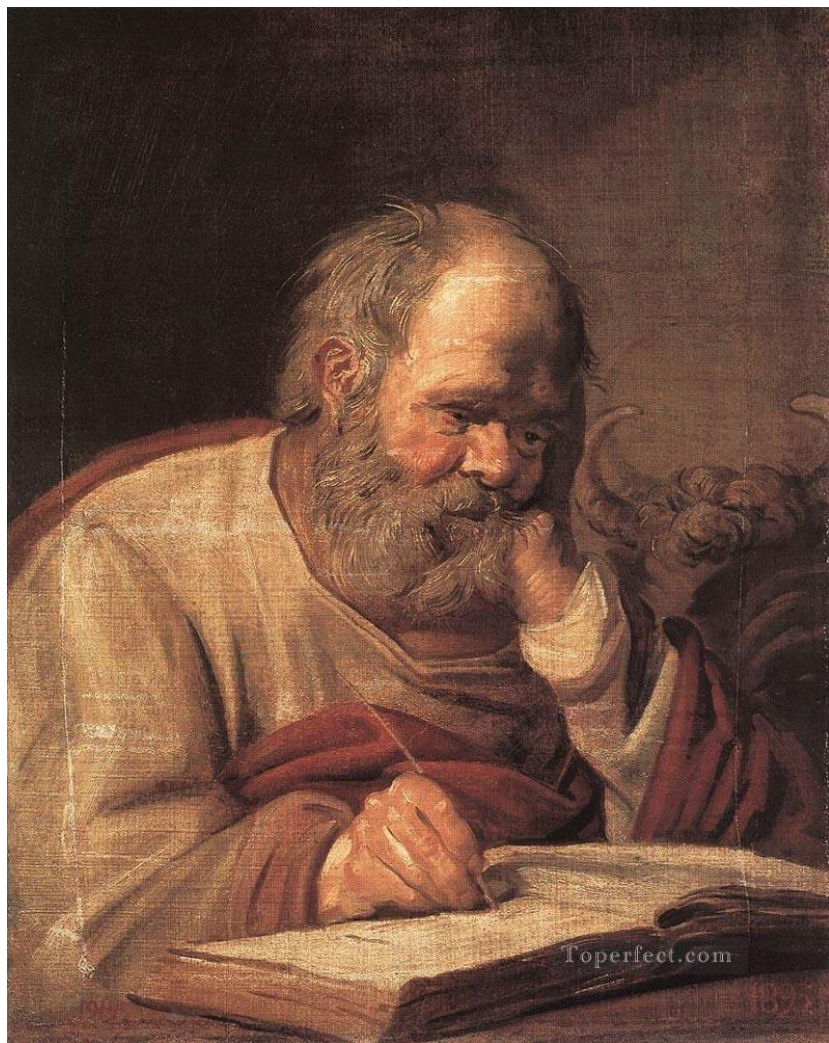


Submit your solutions before the finishing date to the address: ProbOfTheWeek@utdallas.edu



## Problem of the Week

Finishing date: 11/18/2016

Define the function  $f : (0, +\infty) \rightarrow \mathbb{R}$  by

$$f(x) = \left[ \frac{1^x + 2^x + \cdots + 2016^x}{2016} \right]^{\frac{1}{x}}.$$

Compute the limit

$$\lim_{x \rightarrow 0^+} f(x).$$

Previous problem winners:

**Randall Moreland (partial solution)**

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

