PUZZLE OF THE WEEK (11/2/2016 - 11/8/2016)

Suppose that for some continuously differentiable, decreasing function f(x) defined on the real number line the series $\sum_{n=1}^{\infty} f(n^2)$ converges. Is it necessarily the case that the series $\sum_{n=1}^{\infty} \frac{f(n)}{\sqrt{n}}$ converges? Justify your claim.

- The only correct solution to Puzzle of the Week #9 was submitted by Noah Benjamin. Congratulations!
- One possible solution of the Puzzle #9 is posted online. (Look for the Puzzle of the Week announcements on the departmental web-page.)
- Solvers of this week's puzzle should include their name, address, and status at the College. Solutions should be submitted to **Iva Stavrov** in BoDine 305; email submissions are encouraged (istavrov at lclark). Solutions should be received by the end of the day on **Tuesday**, **November 8th 2016**.