Problem of the Week #10
1/11/2016 to 1/24/2016

Given that \( \lim_{x \to \infty} (f(x) + f'(x)) = 0 \), prove that \( \lim_{x \to \infty} f(x) = \lim_{x \to \infty} f'(x) = 0 \).

Thanks to all of those who submitted solutions to last week’s problem. The complete list of people who submitted solutions to last week’s problem can be found on the posted solution.

Solutions for this problem can be submitted to Dr. Brian Miceli at bmiceli@trinity.edu, or you can drop them off at his office, MMH 115F. People with correct solutions will be acknowledged on the next problem. For old problems, follow the “Problem of the Week” link at www.trinity.edu/bmiceli, and if you like these problems, you may be interested in the Putnam Exam. More information on the Putnam Exam can also be found at www.trinity.edu/bmiceli.