

# Problem of the Block - Block 4



## Know Your Limits!

### (A Special Christmas Treat for Calculus Students)

Evaluate  $\lim_{x \rightarrow 0} |\ln |x||^{\sin x}$

Turn in solutions to Dr. Bean in Law 206E or by email at [sbean@cornellcollege.edu](mailto:sbean@cornellcollege.edu) by Wednesday, December 19th. You may ask any Mathematics and Statistics faculty member about the questions, but Dr. Bean wrote them (and therefore at one time at least knew the answer to them) so that might be your best bet.

Partial solutions will receive credit (and are encouraged!). Submitting solutions for the Problem of the Block can earn culture points toward the major in mathematics.

For more information about the Problem of the Block, including the current leader board for the yearly competition, and to print off your own copy visit <http://www.cornellcollege.edu/mathematics/problem-of-the-block/index.shtml>.