

# The Problem Solving Competition - Problem #5

- Your submission should contain a FULL solution. Not just the answer, but your entire argument.
- **Submit solutions to Pam in MCT 250**
- **Questions???** Ask Dr. Taylor email: pttaylor@ship.edu, or stop by MCT 281
- Winners, problems and solutions will be posted at <http://www.ship.edu/pttaylor/PSC/index.html>

Suppose that  $f(1) = 5$  and  $f'(x) = \frac{1}{\cos(\ln x)}$ . Show that  $f(3) \geq 7$ .

Solutions for this puzzle will be due **Wed, Nov 11** at 4pm.