

The Problem Solving Competition - Problem #1

- 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>

Let $f(x) = x^2 - 30x + b$, where b is a constant. Suppose the maximum and minimum of $f(x)$ on the interval $[0, 20]$ have the same absolute value. Find b .

Solutions for this puzzle will be due **Wed, Sept 16** at 4pm.