

## Problem of the Week

Proposed by Bernardo Ábrego and Silvia Fernández

November 13-20

Prove that the deadline cannot be written as the sum of three cubes. That is, prove that the equation

$$x^3 + y^3 + z^3 = 11 \cdot 20 \cdot 2006 = 441,320.$$

has no solutions with integers  $x, y$ , and  $z$ .

This contest is sponsored by the Mathematics Department. Open to all CSUN students.

Winner gets \$5 or an equivalent prize. All complete and correct solutions get a certificate.

Type and send your solution before November 20th, 9:00PM to [silvia.fernandez@csun.edu](mailto:silvia.fernandez@csun.edu).

All steps of the solution must be clearly justified.

For rules, winners, solutions, and more information visit: [www.csun.edu/math/probweek](http://www.csun.edu/math/probweek)