

Problem of the Week

Proposed by Bernardo Ábrego and Silvia Fernández

February 6-13

A positive integer n is called abundant if the sum of its positive divisors, excluding n itself, is greater than n . For example 12 is abundant because $1+2+3+4+6 = 16$ is greater than 12.

Find an odd abundant number.

(Multiple submissions are allowed and encouraged. The smallest correct answer gets the prize.)

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 February 13th, 9:00PM to 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