

Problem of the Week

Proposed by Bernardo Ábrego and Silvia Fernández

May 15-22

Prove that if n is a positive integer such that $4^n + 2^n + 1$ is prime then n is a power of 3.

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 May 22nd, 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