

Problem of the Week

Proposed by Bernardo Ábrego and Silvia Fernández

February 5-12

Show that none of the numbers of the form

$$19 \cdot 8^n + 17, \quad n = 0, 1, 2, 3, 4, 5, 6, \dots$$

are prime.

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 12th, 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