

Suppose m>1 is an integer and p a prime number such that m divides p-1 and p divides  $m^3-1$ .

## Prove that 4p-3 is a perfect square.

This contest is sponsored by the Mathematics Department. Open to all CSUN students. Winner gets \$10 or an equivalent prize. All complete and correct solutions get a certificate. Type and send your solution before February 16th, 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