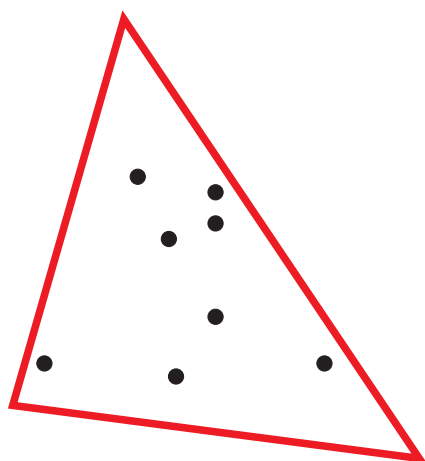


## Problem of the Week

Proposed by Bernardo Ábrego and Silvia Fernández

February 19-26



There are  $n$  points in the plane such that the area of the triangle formed by any three of them has area at most 1.

Show that there is a triangle of area 4 that contains all  $n$  points. (The vertices of this triangle are not necessarily part of the  $n$  points.)

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. **Special prizes will be given to the three people solving the most number of problems correctly during the semester.**

Type and send your solution before February 26th, 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)