

Department of Mathematics

Proposed by Bernardo Ábrego and Silvia Fernández

April 23-30

ABCDEF is a convex hexagon such that the diagonals AD, BE, and CF all bisect the area. Prove that these diagonals are concurrent.

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 April 30th, 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