

Problem of the Week

Proposed by Bernardo Ábrego and Silvia Fernández

May 8-15

Suppose that an equilateral triangle T and a square S share a vertex and are both inscribed in the same circle of radius 1.

Find the area of the intersection of T and S .

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 15th, 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