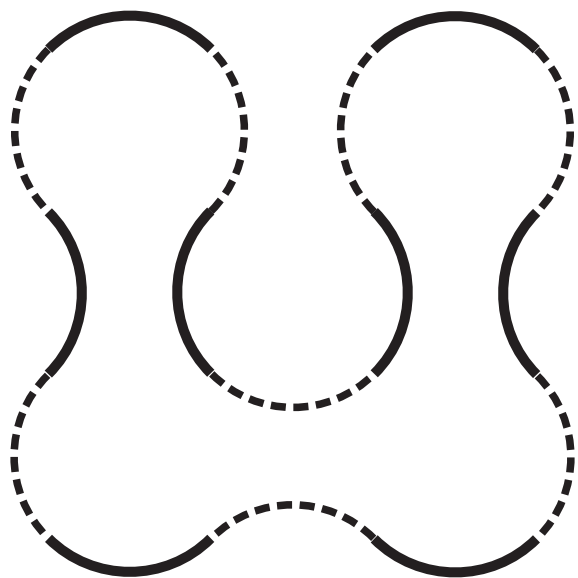


## Problem of the Week

Proposed by Bernardo Ábrego and Silvia Fernández

September 12-19



The U-shaped figure on the left is made of 16 congruent arcs of circle. Each arc is a fourth of a circle of radius 1.

What is the area of this figure?

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 September 19th, 9:00PM to [bernardo.abrego@csun.edu](mailto:bernardo.abrego@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)