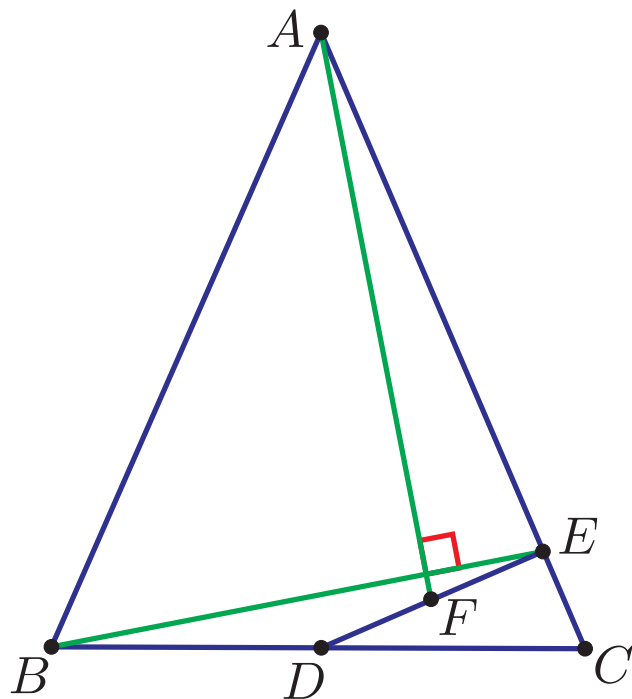


Problem of the Week

Proposed by Bernardo Ábrego and Silvia Fernández

September 22-29



Consider an isosceles triangle ABC with $AB = AC$. Let D be the midpoint of segment BC , E a point on the side AC such that DE is perpendicular to AC , and F the midpoint of segment DE .

Prove that the segments AF and BE are perpendicular.

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 September 29th, 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