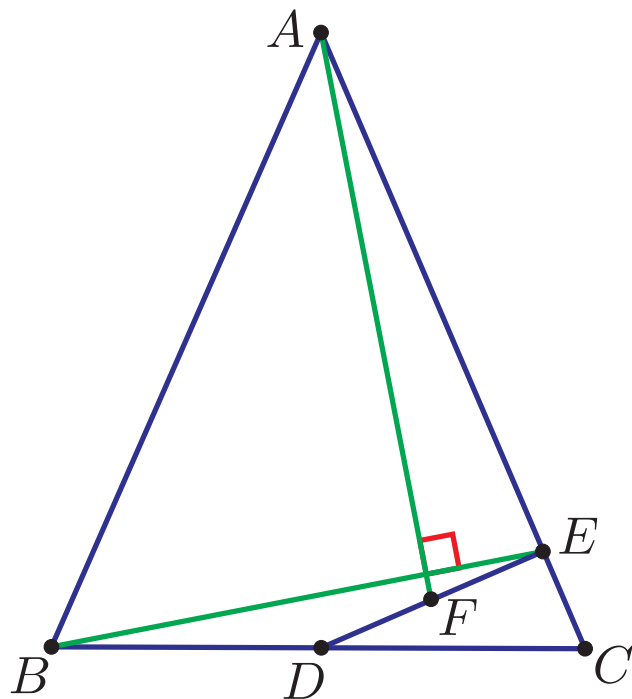# Problem of the Week

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.