

1056-Z1-653

Hieu D Nguyen* (nguyen@rowan.edu), Rowan University, Department of Mathematics, 201 Mullica Hill Rd., Glassboro, NJ 08028. *Foot to the Pedal: Generalizing Euler's work on constant pedal curves to constant pedal surfaces*. Preliminary report.

In this talk we describe Euler's solution to the problem of finding constant pedal curves published in his E236 paper and discuss a generalization of his work to constant pedal surfaces, a higher-dimensional analogue of constant pedal curves. Some new results describing constant pedal surfaces will be presented. This topic is highly suited as a project for an undergraduate course in differential geometry. (Received September 15, 2009)