

1147-20-27

Jackson Autry and **Vadim Ponomarenko*** (vponomarenko@sdsu.edu), 5500 Campanile Dr.,
Department of Mathematics and Statistics, San Diego State University, San Diego, CA 921827720.
Membership and Elasticity in Certain Affine Monoids.

Consider an affine monoid of dimension 2, with particular focus on embedding dimension 2 or 3. We examine the problem of testing whether a vector is an element of the monoid, and the problem of computing elasticity of an element of the monoid. (Received October 16, 2018)