

1057-31-217

Alexander Yu. Solynin* (alex.solynin@ttu.edu), Department of Mathematics and Statistics,
Broadway and Boston, Lubbock, TX 79409. *Isoperimetric inequalities for curvilinear polygons.*

We will discuss several isoperimetric problems on the class of planar curvilinear polygons with at most $n \geq 3$ sides. In particular, we will show how the method of dissymmetrization and the method of partitioning of a domain can be used to solve some of these problems. (Received January 23, 2010)