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Applying functions to the study of mosaics and polyhedra. (Aplicación de las funciones al estudio de mosaicos y poliedros.)

SUMA (Granada), No. 48, 7-13 (2005).

Summary: This paper answers the following question: How can be obtained all the possible regular tessellations, the semiregular tessellations, the regular polyhedrons, the prisms and antiprisms formed with regular polygons and the archimedean polyhedrons? Using only knowledge about functions corresponding to the high school curriculum and a simple function graphing software.

Classification: I20 G40 G90

Keywords: tessellations; polyhedrons; polygons; functions