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ANALYTIC REPRESENTATION AND CLASSIFICATION OF A WIDE SET OF GEOMETRIC FIGURES

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Aim of this article is the analytical representation of a class of geometrical figures, surfaces and lines (Trajectories). This class of surfaces includes the surfaces appearing in some problems of Shell Theory or problems of spreading of smoke-rings; furthermore, the lines of this class can be used for describing the complicated orbit of some celestial objects. In particular cases, this analytic representation gives back many classical objects (torus, helicoid, helix, Generalized Möbius Listing's bodies, cochlea body ... etc.). 2000 Mathematics Subject Classification: 51E21, 51E05.

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