Conics in Normed Planes

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Abstract: In a unified way, we study the generalized analogues of conics for normed planes by using the following natural approach: It is well known that there are different metrical definitions of conics in the Euclidean plane. We investigate how these definitions extend to normed planes, and we show that in this more general framework these different definitions yield, in almost all cases, different classes of curves.

Key words: Birkhoff orthogonality, conics, ellipses, hyperbolas, Minkowski plane, normed plane, parabolas.

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References


