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Broyles, Chris; Müller, Lars; Tikoo, Mohan; Wang, Haohao
Two approaches of studying singularity of projective conics.

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Summary: The singularity of a projective conic can be determined via the associated matrix to the implicit equation of the projective conic. In this expository article, we will first derive a known result for determining the singularity of a projective conic via the associated matrix. Then we will introduce the concepts of μ -basis of the parametric projective conics, and close with the same criteria via μ -basis method.

Classification: H75 H65 G75

Keywords: conics; singularity; μ -basis; parametric equations; implicit equations; resultant
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