ARTICLE

GEOMETRICAL CONTRIBUTIONS OF BRAHMAGUPTA REGARDING CYCLIC QUADRILATERALS

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The versatile Indian astronomer-mathematician, who enriched mathematics as well as astronomy is Brahmagupta. His major work Brāhmasphuṭasiddhānta, composed in 628 CE, consists of 24 chapters. Two of these chapters, namely 12ᵗʰ (XII) and 18ᵗʰ (XVIII), deal exclusively with pure mathematics (including some topics on geometry and mensuration). In this article an attempt will be made to discuss about his geometrical contributions regarding cyclic quadrilaterals only, which are included in the said chapter-XII. Thereafter, our aim will be to find the relevance (direct or indirect) of these early medieval contributions of Brahmagupta in the field of the present day high school geometry.