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## A Proof of Two Conjectures Related to the Erdős-Debrunner Inequality

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**Abstract:**

In this paper we prove some results which imply two conjectures proposed by Janous on an extension to the  $p$ -th power-mean of the Erdős-Debrunner inequality relating the areas of the four sub-triangles formed by connecting three arbitrary points on the sides of a given triangle.



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