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The Best Constant for a Geometric Inequality

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Abstract:

In this paper, we prove that the best constant for the geometric inequality

$$\frac{11\sqrt{3}}{5R+12r+k(2r-R)} \leq \frac{1}{a} + \frac{1}{b} + \frac{1}{c}$$

is a root of one polynomial by the method of mathematical analysis and linear algebra.



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