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Hadwiger-Finsler inequality

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Owner mathwizard (128)
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Author mathwizard (128)

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In a triangle with sides $a,\ b,\ c$ and an area A the following inequality holds:

$$a^{2} + b^{2} + c^{2} \ge (a - b)^{2} + (b - c)^{2} + (c - a)^{2} + 4A\sqrt{3}.$$