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A study on generating and proving inequalities using parameterization to elementary symmetric polynomials.

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Summary: In this paper we study generating and proving methods of symmetric inequalities. We analyze various literatures related to proofs of symmetric inequalities. As a result, we can describe a generating method of symmetric inequalities, and suggest some symmetric inequalities that are generated by using parameterization to elementary symmetric polynomials. And we are able to classify some proving methods, and show proofs of symmetric inequalities.

Classification: H30 E50

Keywords: symmetric inequality; elementary symmetric polynomial; proof

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