ON GENERALIZED CESÀRO STABLE FUNCTIONS

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Abstract. The notion of Cesàro stable function is generalized by introducing Cesàro mean of type \( (b-1;c) \) which give rise to a new concept of generalized Cesàro stable function. As an application of generalized Cesàro stable functions we also prove for a convex function of order \( \lambda \in [1/2,1) \), its Cesàro mean of type \( (b-1;c) \) is close-to-convex of order \( \lambda \). Further two conjectures are also posed in the direction of generalized Cesàro stable function. Some particular cases of these conjectures are also discussed.


Keywords and phrases: Trigonometric sums, Cesàro means, starlike functions, close-to-convex functions.

REFERENCES


