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Some Theorems Involving Inequalities on  $p$ -valent Functions

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**Abstract:** In this paper, some theorems involving inequalities on  $p$ -valent functions (that is  $p$ -valently close-to-convex functions,  $p$ -valently starlike functions, and  $p$ -valently convex functions) are given. Moreover, some applications in the theorems which are important for geometric function theory are also included. Keywords: Analytic,  $p$ -valent,  $p$ -valently close-to-convex functions,  $p$ -valently starlike functions,  $p$ -valently convex functions, open unit disk, and Jack's Lemma.

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