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in this paper we consider two classical objects of univalent functions: starlike and convex functions, we show that if the boundary of a polygon is convex and of positive curvature, then the starlike extension of the boundary of this polygon is a convex function.the converse is not true, but this property, i.e. the fact that the starlike extension of the boundary of a convex polygon is a convex function, has a deep geometric meaning. this fact and some applications are proved in this paper. in this paper we introduce and study the class of harmonic univalent functions of order k between a circle and a jordan arc in the complex plane. the class of harmonic univalent functions of order k of one-to-one holomorphic mappings between two regions of the plane has been introduced by the author in [1]. in this article we study the class of functions introduced by the author in [1]. we study some of the properties of this class, and give a representation theorem for the harmonic univalent mappings of this class, in particular, we show that the harmonic univalent mappings of this class have the so-called wright's asymptotic function as their boundary values at the boundary of the circle, when the function is extended to the interior of the circle by means of the harmonic mean. we also show that the class of harmonic univalent mappings of this class is closed with respect to the generalized composition. some interesting applications of these results to the study of univalent functions are also discussed. in this paper we study the problem of matching generalized polygons under affine transformations, our approach is based on invariants, firstly we associate an ordered set of complex numbers with each polygon and construct a collection of complex scalar functions on the space of plane polygons. these invariant functions are defined as guotients of the so-called fourier descriptors, also known as discrete fourier transforms.each one of these functions is invariant under similarity transformations; that is, the function associates the same complex number to similar polygons. moreover, if two polygons are affine related (one of them is the image of the other under an affine transformation), the pseudo-hyperbolic distance between their associated values is a constant that depends only on the affine transformation involved, but independent of the polygons more formally, given a collection { z 1, z 2, z m } of n-sided polygons in the plane and a guery polygon w, we give algorithms to find all z such that f(z) = w + w, where f is an unknown affine transformation and w = (w 1, w n) with w k, where is certain tolerance.

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in this paper, we study the class of analytic and univalent functions in the open unit disk. we give a solution to the s-subordination of a function in this class. we also give a solution to the inverse problem for this class. the class of analytic and univalent functions in the open unit disk is a subclass of the class of analytic and univalent functions in the complex plane. we prove that the class of analytic and univalent functions in the open unit disk is closed under analytic functions, univalent functions, continuous functions, and functions that have analytic inverses, we also present several results concerning the behavior of analytic and univalent functions in the unit disk under the operation of composition and inversion. in particular, we show that the composition of analytic and univalent functions is analytic and univalent. the paper concerns the generalization of the class of univalent functions starlike in the unit disk. we consider a natural extension of the class of starlike functions, namely the class of starlike univalent functions. in this paper, we consider a class of univalent functions in the unit disk. we study the question of whether the coefficients of these functions are real and we establish some inequalities concerning the behavior of these coefficients. the results of this paper are applied to extend certain classes of functions in the unit disk to the generalized unit disk, we consider the problem of constructing starlike univalent functions with prescribed coefficients. we construct these functions in a normalized form and obtain new classes of starlike univalent functions with some prescribed coefficients. we also give an estimate on the value of the radius of convergence of these functions. 5ec8ef588b

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