

EQUIVALENCE OF AFFINE CURVES

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ABSTRACT

The definitions of affine curve, affine arclength and affine types of an affine curve are given in R^2 . Affine invariant parametrization of an affine curve which is invariant under the affine group is introduced. The complete system of affine differential invariants for affine plane curves is obtained and we show that these invariants are independent. The conditions of equivalence of two affine curves is obtained in terms of affine differential invariants in R^2 .

Keywords: Affine geometry, affine curve, affine differential invariants, affine equivalence.

MSC: 53A15, 53A55.

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