FOLDING EFFECT ON SOME GEOMETRICAL PROPERTIES OF SOME GEOMETRIC FIGURES

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Abstract. In this paper, we introduce the effect of some types of foldings on some geometric figures in $\mathbb{R}^n$, which makes the geometric figure that is not manifold to be a manifold. The limit of foldings of some geometric figures is deduced, the types of foldings, which fail to change the geometric figure to be a manifold are discussed. The effect of folding and retraction on some singular knots are presented, the effect of some geometric properties of some geometric figures as rotation index of some non-simple closed curves are presented. Theorems governing these types of foldings and retractions are deduced.

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