

INVERSI DAN TITIK-TITIK HARMONIS

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Abstract

Given a circle centre O and radius r in R^2 , the inversion in this circle is the mapping $t: R^2 \setminus \{O\} \rightarrow R^2 \setminus \{O\}$ defined by $t(A) = A'$, where A' lies on the straight line through O and A , and on the same side of O as A , and $OA.OA' = r^2$. It will be investigated the property of inversion related to four harmonic points. The result is that the cross-ratio of any four coplanar points A, B, C, D is invariant under inversion. Hence, the inversion preserves the four harmonic points.

Keywords : inversion, cross ratio, four harmonic points.