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On properties of the set of invariant lines of a Brouwer homeomorphism. (English)

[Zbl 1390.39069](#)

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Summary: We present properties of sets of invariant lines for Brouwer homeomorphisms which are not necessarily embeddable in a flow. Using such lines we describe the structure of equivalence classes of the codivergency relation. We also obtain a result concerning the set of regular points.

MSC:

[39B12](#) Iteration theory, iterative and composite equations

[54H20](#) Topological dynamics (MSC2010)

[37E30](#) Dynamical systems involving homeomorphisms and diffeomorphisms of planes and surfaces

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Keywords:

[Brouwer homeomorphism](#); [regular point](#); [invariant line](#); [limit set](#); [discrete dynamical system](#)

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