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E. Arthur Robinson, Jr.*, Department of Mathematics, George Washington University,
Washington, DC 20052. *Parry's topological transitivity and f -expansions.*

In his 1964 paper on f -expansions, Parry studied piecewise-continuous, piecewise-monotonic interval maps F , and introduced a notion of topological transitivity different from any of the modern definitions. This notion, which we call *Parry topological transitivity*, is that the *backward orbit* $O^-(x) = \{y : x = F^n y \text{ for some } n \geq 0\}$ of some x is dense. We show that topological transitivity (i.e., a dense *forward* orbit) implies Parry topological transitivity, but that the converse is false. We discuss Parry's application of these ideas to the theory of f -expansions, and provide a modern variation on these ideas. (Received September 03, 2013)