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SOME CHARACTERIZATIONS OF NONLINEAR FIRST ORDER DIFFERENTIAL EQUATIONS ON UNBOUNDED INTERVALS

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Abstract. In this article, we discuss the existence as well as global attractivity and ultimate positivity of solutions for a certain nonlinear first order ordinary differential equation on the unbounded intervals of real line via a classical fixed point theorem of Schauder (Smart [12, page 15]). Our hypotheses and claims have also been explained with the help of two realizations under some natural conditions.

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