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1. Introduction

The purpose of this paper is to study the asymptotic behavior of the solutions of the system of equations (1) as $t \rightarrow \infty$.

Let $x(t)$ and $y(t)$ be the solutions of the system (1) with initial conditions $x(0) = x_0$ and $y(0) = y_0$. It is well known that the solutions of (1) are bounded for all $t \geq 0$ if and only if $x_0 = 0$ and $y_0 = 0$.

It is also known that the solutions of (1) are bounded for all $t \geq 0$ if and only if $x_0 = 0$ and $y_0 = 0$.

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