

LIMIT CYCLES OF QUADRATIC SYSTEMS IN THE PLANE

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1. Introduction. This paper presents a study of the known limit cycle configurations for quadratic systems in the plane:

$$(1) \quad \begin{aligned} \dot{x} &= \sum_{i+j=1}^2 a_{ij} x^i y^j \\ \dot{y} &= \sum_{i+j=1}^2 b_{ij} x^i y^j. \end{aligned}$$

Concrete examples of quadratic systems with the following limit cycle configurations are known.

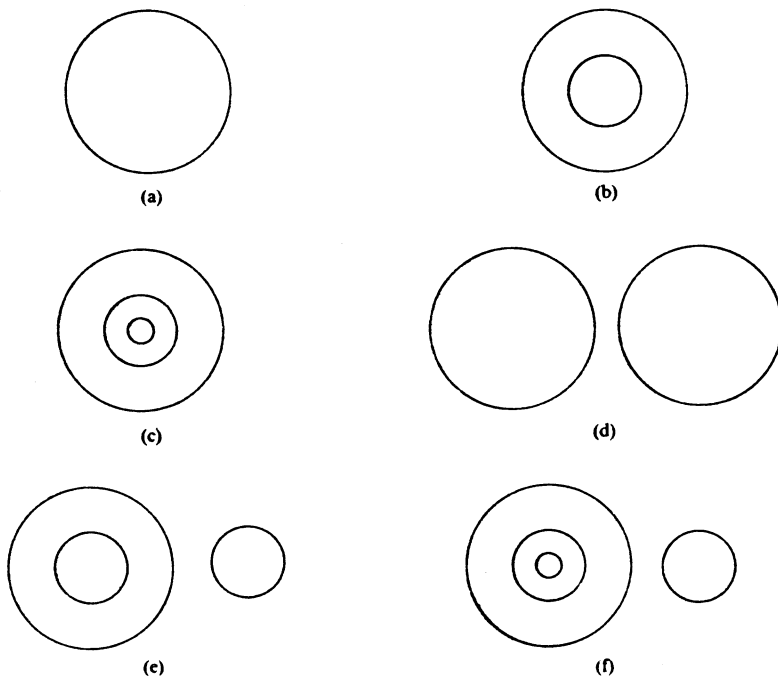


Figure 1

Received by the editors on August 12, 1983, and in revised form on September 26, 1983.

This work was supported by the National Science Foundation under Grant No. MCS-8201020.