

Linear System

$$\begin{aligned}\dot{v}_1 &= v_1 - v_2 \\ \dot{v}_2 &= v_1 + 3v_2\end{aligned}$$

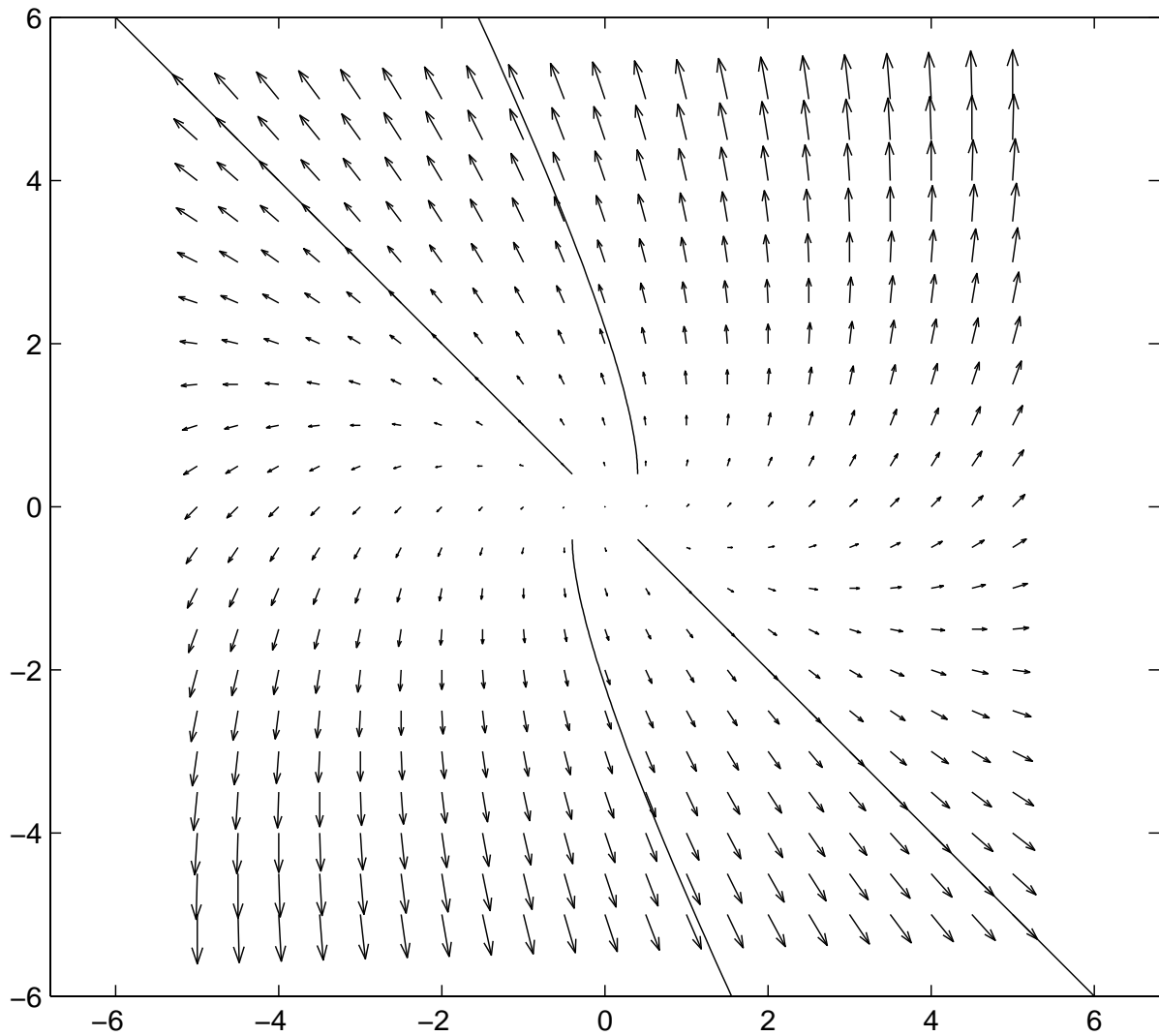


Figure 1: Direction field and sample trajectories for linear system with $(a, b, c, d) = (1, -1, 1, 3)$.