

Linear System

$$\begin{aligned}\dot{v}_1 &= v_1 + v_2 \\ \dot{v}_2 &= 2v_1 + 2v_2\end{aligned}$$

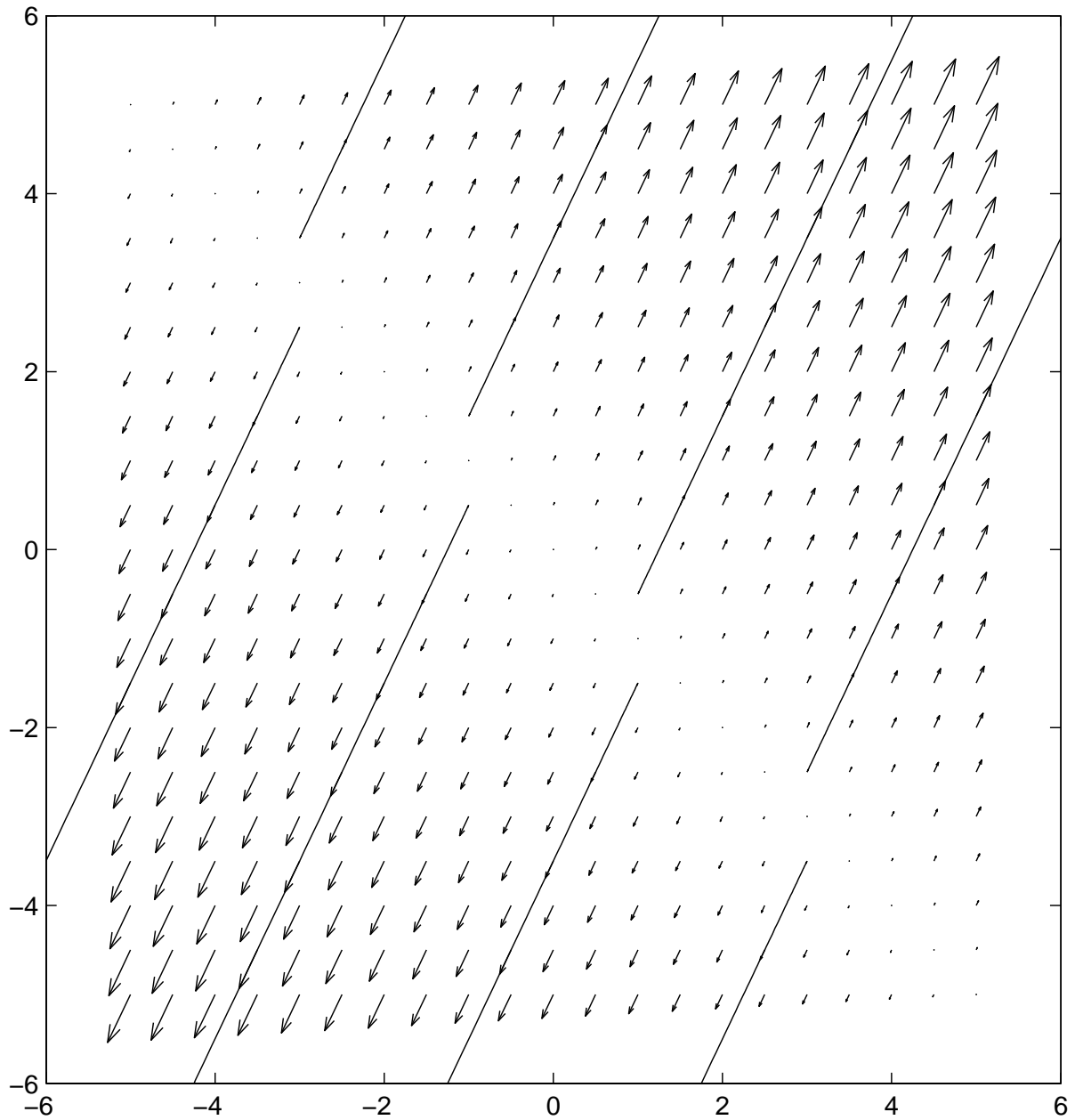


Figure 1: Direction field and sample trajectories for linear system with $(a, b, c, d) = (1, 1, 2, 2)$.