Linear System

\[ \dot{v}_1 = -0.5v_1 + 0.2v_2 \]
\[ \dot{v}_2 = -0.3v_1 - 0.4v_2 \]

Figure 1: Direction field and sample trajectories for linear system with \((a, b, c, d) = (-0.5, 0.2, -0.3, -0.4)\).