Linear System

\[
\begin{align*}
\dot{v}_1 &= .5v_1 + .5v_2 \\
\dot{v}_2 &= v_1 + .5v_2
\end{align*}
\]

Figure 1: Direction field and sample trajectories for linear system with \((a, b, c, d) = (.5, .5, 1, .5)\).