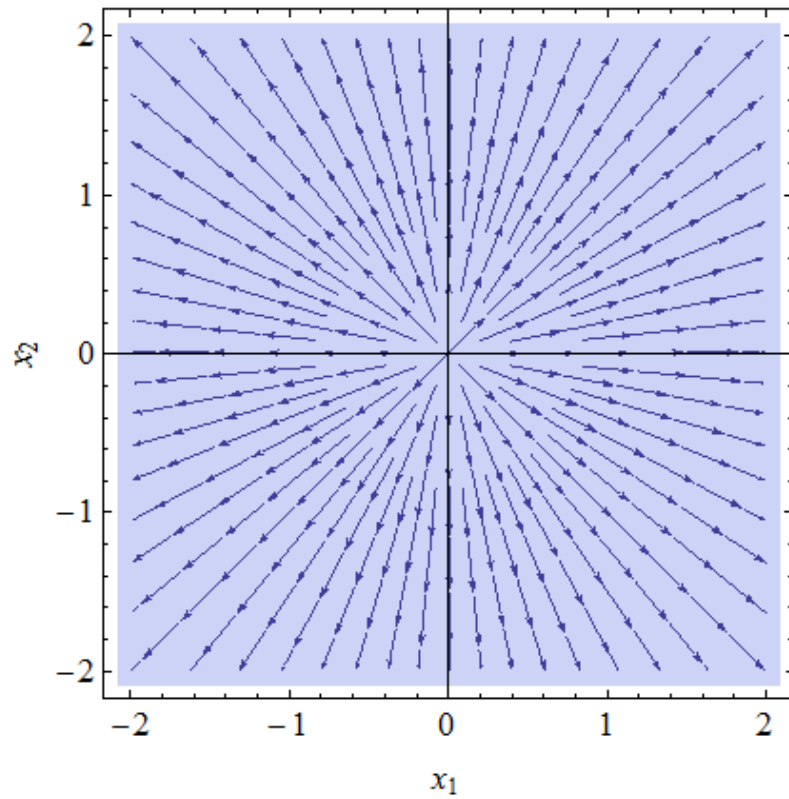


EXAMPLES OF PHASE DIAGRAMS OF TYPE IV: $A=\lambda I$, proportional to the identity

1. **Unstable star node: $\lambda > 0$. Example: $A = \begin{pmatrix} 2 & 0 \\ 0 & 2 \end{pmatrix}$**



2. **Stable star node: $\lambda < 0$. Example: $A = \begin{pmatrix} -2 & 0 \\ 0 & -2 \end{pmatrix}$**

