$$\dot{x} = \begin{pmatrix} 1 & -4 \\ 9 & -11 \end{pmatrix} x
\begin{cases} \dot{x} = x - 4y \\ \dot{y} = 9x - 11y \end{cases}
y = \frac{x - \dot{x}}{4}
\dot{y} = \frac{\dot{x} - \ddot{x}}{4}
\ddot{x} + 10\dot{x} + 20x = 0
(D + 5I)^{2}[x] = 0
D = -5I
\begin{cases} x = C_{1}e^{-5t} + C_{2}te^{-5t} \\ y = 6C_{1}e^{-5t} + C_{2}e^{-5t}(6t - 1) \end{cases}$$