1. [15 points] For each of the following, find explicit, real-valued solutions, as indicated. a. [7 points] The general solution to $x^{\prime}=3 y, y^{\prime}=2 x+y$
b. [8 points] The solution to $\mathbf{x}^{\prime}=\left(\begin{array}{ll}0 & -2 \\ 2 & -4\end{array}\right) \mathbf{x}, \mathbf{x}(0)=\binom{3}{0}$.
