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The eigenvalues of $\begin{bmatrix} 3 & 0 \\ -1 & 3 \end{bmatrix}$ are both 3. (You do not need to check this.)

Find the general solution to the differential equation

$$y' = \begin{bmatrix} 3 & 0 \\ -1 & 3 \end{bmatrix} y.$$

(Partial credit: find at least one solution.)