

Let

$$\mathbf{A} = \begin{pmatrix} 1 & 1 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$$

- Solve  $\mathbf{x}' = \mathbf{A}\mathbf{x}$ .
  - Solve  $\mathbf{x}' = \mathbf{A}\mathbf{x}$  subject to  $\mathbf{x}(0) = \mathbf{0}$ .
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