

NAME:

Georgia Tech, Fall 2015
Math 2552 (Sections F1 – F4)

Quiz 12

1. Find the general solution of the linear system below, and express it in the form $\mathbf{x} = c_1\mathbf{x}_1 + c_2\mathbf{x}_2$, where \mathbf{x}_1 and \mathbf{x}_2 are two *real* solutions:

$$\mathbf{x}' = \begin{pmatrix} 2 & -1 \\ 2 & 4 \end{pmatrix} \mathbf{x}.$$

2. Find the general solution of the linear system below:

$$\mathbf{x}' = \begin{pmatrix} -3 & -2 \\ 2 & 1 \end{pmatrix} \mathbf{x}.$$

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1. Find the general solution of the linear system below, and express it in the form $\mathbf{x} = c_1\mathbf{x}_1 + c_2\mathbf{x}_2$, where \mathbf{x}_1 and \mathbf{x}_2 are two *real* solutions:

$$\mathbf{x}' = \begin{pmatrix} 1 & -2 \\ 5 & -5 \end{pmatrix} \mathbf{x}.$$

2. Find the general solution of the linear system below:

$$\mathbf{x}' = \begin{pmatrix} 0 & -2 \\ 2 & 4 \end{pmatrix} \mathbf{x}.$$