

**Quiz 7**

Name: \_\_\_\_\_

1. Find a general solution of the system of differential equations

$$\frac{d\vec{x}}{dt} = \begin{pmatrix} 0 & 2 \\ -1 & 3 \end{pmatrix} \vec{x} + \begin{pmatrix} 1 \\ -1 \end{pmatrix} e^t.$$