

Math 365: Honors Analysis I
Quiz 5 *December 1, 2000*

Name: _____

Find the general solution to each of the following systems of equations.

1. $\mathbf{X}' = \begin{pmatrix} 1 & -1 \\ 5 & -3 \end{pmatrix} \mathbf{X}$

2. $\mathbf{X}' = \begin{pmatrix} 3 & -4 \\ 1 & -1 \end{pmatrix} \mathbf{X}$

$$3. \mathbf{X}' = \begin{pmatrix} 2 & -1 \\ 3 & -2 \end{pmatrix} \mathbf{X} + \begin{pmatrix} e^t \\ t \end{pmatrix}$$