Math 274 Quiz 8 **Name:** _____

Sections: 9.1-9.2 Point values in boxes.

30 November 2018

1. [5] Find a solution to the initial value problem

$$\mathbf{x}' = \begin{bmatrix} 1 & 2 \\ 0 & 3 \end{bmatrix} \mathbf{x}, \quad \mathbf{x}(0) = \begin{bmatrix} 1 \\ -1 \end{bmatrix}.$$

2. [5] Find a **real valued** general solution to

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