## Quiz #12 MATH 54, Fall 2016, Section 219

Name:			
Section:			

1. Find the general solution to the differential equation  $\mathbf{y}' = A\mathbf{y}$ , where

$$A = \begin{bmatrix} 2 & 1 \\ -1 & 2 \end{bmatrix}$$

2. Find the solution of the initial value problem  $\mathbf{y}' = A\mathbf{y}$ ,  $\mathbf{y}(0) = (1, -1)^T$ , where

$$A = \begin{bmatrix} -1 & 0 \\ -2 & -1 \end{bmatrix}.$$