Math 3280 Worksheet 41:

Group members (2 to 4):	
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(1) For the family of initial values problems $x_1(0) = 0$, $x_2(0) = 1$, and x' = Ax where

$$A = \left(\begin{array}{cc} 1 & 1 \\ -a^2 & 1 \end{array}\right)$$

compute $\lim_{a\to 0} x$.