Name:		
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Math 260 Spring 2013, Term 122

Quiz 7 Section 04

Serrial Number:

SID:

Instructions: Show Your Work!

 $(10^{\rm pts})$ **1.** Let

$$A = \left[\begin{array}{rrrr} 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 1 \\ 0 & 0 & 0 & 2 \end{array} \right].$$

Is the matrix A diagonalizable? If it is, find a diagonalizing matrix P and a diagonal matrix D such that $P^{-1}AP = D$.