

**MATH221**  
quiz #1, 2/22/10  
**topics to be covered**

1. Linear dependence/independence.
2. Span of a vector set.
3. Properties of matrix multiplication.
4. The solution set for the system  $A\mathbf{x} = \mathbf{b}$ , and linear dependence/independence of columns  $\{\mathbf{a}_1, \dots, \mathbf{a}_n\}$  of matrix  $A$ .
5. Computation of  $A^{-1}$ .