

**Math 224**  
**Daily Objectives**  
**Class Session 16**  
**Tuesday, October 23, 2007**

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**5.2: Diagonalization (Continued)**

- How to diagonalize a matrix and compute  $A^k$  in terms of  $k$
- Definition of similarity
- Algebraic and geometric multiplicity criterion for diagonalization
- Diagonalization of real symmetric matrices