

Math 224
Daily Objectives
Class Session 4
Thursday, September 6, 2007

1.5: Inverses of Square Matrices

- Definition of inverse matrix; uniqueness of an inverse
- Definition of an invertible matrix
- Inverse of an elementary matrix
- Computation of A^{-1}
- Inverses of products (Thm. 1.10)
- $AC = I$ if and only if $CA = I$
- Equivalent conditions for A^{-1} to exist (Thm. 1.12)
- Solving problems using inverses; multiplication on the left and right