MA/CSC 428 HOMEWORK 1 Name: _____ Due February 6, 2001

1. Suppose that $L = [\ell_{ij}]$ is a lower triangular matrix with $\ell_{ii} \neq 0$ for all $i = 1, \ldots n$.
   (a) Prove that the inverse of L is also lower triangular.
   (b) Give a explicit recipe on how L^{-1} can be contracted from elements in L.