

NAME: _____

Math 351 (Cowen)

Corrected Pop QUIZ

24 September 2008

1. Problem 11, page 32
2. Problem 11, page 46
3. Find a basis for the solution space of the system given in Problem 26, page 74.

NOTE!!

The system in problem 26, page 74 is non-homogeneous – the solution set is NOT!! a subspace, so it does not have a basis (concept doesn't make sense for non-subspaces).

Problem should have read:

Find a basis for the solution space of the **homogeneous system associated with** the system in Problem 26, page 74.

4. Let A be an $n \times n$ matrix (with real entries) for which $A^{-1} = A'$. Prove that $\det A = \pm 1$.