Quiz 6

MATH 221-02

March 20, 2015 Chapter 3.

Let $A = \begin{pmatrix} 1 & 3 & 0 & 0 \\ 2 & 6 & 1 & 0 \end{pmatrix}$.

1. Find a basis for $C(A)$. SHOW YOUR WORK!

2. Find a basis for $R(A)$. SHOW YOUR WORK!

3. Find a basis for $N(A)$. SHOW YOUR WORK!

4. Write out the "blob diagram" that clearly shows where the domain of A, $C(A)$, $R(A)$, $N(A^T)$, and $N(A)$ reside, and indicates the dimensionality of each of these 5 vector spaces.