Basics of CSE - HW4

Due is 13:00 May 20 (Tue). No late HW will be accepted.

Solve the following problems in the book.

- Sec 2.2: No. 1, No. 4, No. 5.
- Sec 2.3: No. 1, No. 2, No. 4, No. 7, No. 8, No. 9, No. 14.
- Sec 2.4: No. 1, No. 2, No. 3, No. 5, No. 14.

1. Find the row space $R(A^T)$, the nullspace $N(A)$, the column space $R(A)$ and the nullspace $N(A^T)$ of the following matrix A.

$$A = \begin{bmatrix} 3 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}.$$