Assignment 1

1. What is the difference between a vector and a matrix?

2. What is the transpose of a matrix?

3. What is the inverse of a matrix?

4. What is the determinant of a matrix?

5. What is the rank of a matrix?

6. What is the null space of a matrix?

7. What is the column space of a matrix?

8. What is the reduced row echelon form of a matrix?

9. What is the singular value decomposition of a matrix?

10. What is the eigenvalue and eigenvector of a matrix?