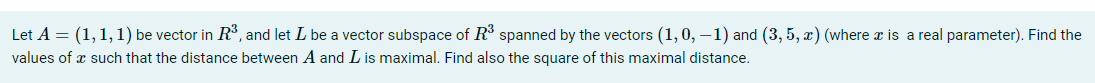
# Task 1.

# Task 2.

# Task 3.



# Task 4.

Find a rank of a matrix A as a function of α.

For α=7 find a rank p of matrix A and a decomposition of A as a product of two matrices B and C, such that B has p columns and C has p rows.

*Let’s use Gaussian elimination to get matrix A to row echelon form.*