

MATLAB Lab 2 – Practice Tasks



1. Create a 3x3 matrix A and a 3x1 column vector b with values of your choice.
2. Extract the second row of matrix A and store it in a new variable.
3. Extract the third column of matrix A and store it in a new variable.
4. Access the specific element in the first row and second column of matrix A, and change its value to 6.
5. Create a 2x2 sub-matrix from matrix A and store it in variable B.
6. Remove the second column of your new matrix B using the empty bracket [] command.
7. Find the transpose of matrix A and store it in a variable called A_trans.
8. Using matrix A and vector b from Task 1, solve the system of linear equations ($Ax = b$) using the matrix inverse function (inv).
9. Solve the exact same system of linear equations ($Ax = b$) using the backslash (\) operator.
10. Calculate the determinant of matrix A.
11. Find the cofactor matrix of A by calculating the determinant, the inverse, and using the transpose command.