Matrix Theory - EE5609

Assignment 1 Lines and Planes

Problem Statement :

Solve the following pair of linear equations

(158 —378) x = -74

(—378 152) x = -604

Solution : Here, solve by using inverse of matrix finding approach :

Consider matrix A = [158 -378]

[-378 152]

Consider vector b = [-74 -604]

Now, Az = b

So, z = (Inverse of matrix A) * b

Using this approach we can find out the solution :

[2.01534475 1.03815998]

The implementation of above approach is done using python code using numpy library attached in below path :
https://github.com/priya6971/matrix_theory_EE5609/tree/master/school/tree/master/training/design/codes

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