Section-III

1. Inverse of a matrix using matlab

Code:

A=[1 3 -1;0 1 2;-1 0 8];

Inv(a);

Output:

Inv(A)=[8 24 7;-2 7 -2;1 -3 1];

1. Solve for system of linear equation using matlab

Code:

syms x y z;

A=[-1 -5 3;-2 -7 0;-1 -4 1];

X=[x;y;z];

B=[4;5;3];

X=inv(A)\*B;

Output:

Matrix is singular to working precision because the given input system gives value of infinity so it throws the warning error like this.