```
clc;clear

r1=5;
r2=25;
r3=12;
r4=6;
r5=15;


v1=110;
v2=45;

a1=[1 -1 -1 0 0];
a2=[0 0 1 -1 -1];
a3=[r1 r2 0 0 0];
a4 = [0 r2 -r3 -r4 0];
a5=[0 0 0 r4 -r5];
a=[a1; a2; a3; a4; a5];

c= [0;0;v1;0;v2];

x=inv(a)*c


x =

    6.8778
    3.0244
    3.8533
    4.8952
   -1.0419
```

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