Firefox about:blank

GS.m

```
1 clear all
 2 A=[4, -1,-1;-2 6 1;-1 1 7];
3 b=[3 9 -6]';
 4 \times (1:3)=0;
 5 sol=zeros(3,6);
 6 disp(x);
 7 conv=0
8 counter=1;
9 while(conv==0)
10
       for i=1:3
            s1=0;s2=0;x1=x(i);
11
12
            %disp(x1);
            for j=i+1:3
13
14
                s1=s1+A(i,j)*x(j);
            end
15
16
            for j=1:i-1
17
                s2=s2+A(i,j)*x(j);
18
19
            x(i)=(1/A(i,i))*(b(i)-s2-s1);
20
            disp(x(i));
       end
21
            if(abs(x1-x(i))<0.0001)
22
                conv=1;
23
24
25
            counter=counter+1;
            sol(:,counter)=x;
26
27 end
28 %disp(x);
29 clc;
30 disp(sol)
31
```

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