

```

commandwindow
clear
clc
close all
format short g
syms v
v = 0.5
for i=1:45 %fixed point iteration to the least possible percentage
    error
        iter(i+1)=1;
        v(i+1)=sqrt(10/3*(34.3+0.02*v(i))*(500 + log(v(i))^3));
        Ea(i+1)=abs((v(i+1)-v(i))/v(i+1))*100;
        if Ea(i+1)<=1E-11
            break
        end
    end
end
table(iter',v',Ea')%displaying results as a table

```

v =

0.5

ans =

18×3 table

Var1	Var2	Var3
0	0.5	0
1	239.05	99.791
1	294.17	18.736
1	302.61	2.7894
1	303.85	0.40992
1	304.04	0.060144
1	304.06	0.0088222
1	304.07	0.0012941
1	304.07	0.00018981
1	304.07	2.7842e-05
1	304.07	4.0838e-06
1	304.07	5.9902e-07
1	304.07	8.7865e-08
1	304.07	1.2888e-08
1	304.07	1.8904e-09
1	304.07	2.7729e-10
1	304.07	4.0679e-11
1	304.07	5.9635e-12