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DEPARTMENT: COMPUTER ENGINEERING

MATRIC NO: 17/ENG02/063

commandwindow

clc

close all

V(1)=0.5;

m=3.5;

g=9.8;

F=m\*g;

F=((0.3\*V.^2)/500 + (log(V)).^3) - (0.02\*V);

for i=1:10

 iter(i+1)=i;

 V(i+1)= sqrt((1/0.3)\*(500+((log(V(i)))^3))\*(34.3+0.02\*V(i)));

 error=abs((V(i+1)-V(i))/V(i+1))\*100;

 if error<=1E-11

 break

 end

end

table(V')

ans =

 21×1 table

 Var1

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_

 0.5+0i

 239.05+0i

 294.17+0i

 302.61+0i

 303.85+0i

 304.04+0i

 304.06+0i

 304.07+0i

 304.07+0i

 304.07+0i

 304.07+0i

 304.07+0i

 304.07+0i

 304.07+0i

 304.07+0i

 304.07+0i

 304.07+0i

 304.07+0i

 17.559-17.962i

 17.575-17.984i

 17.595-17.989i