NAME: AGWANIRU ROSEMARY

MATRIC N0: 17/ENG01/003

COURSE CODE: ENG 382

* commandwindow
* clear
* clc
* format short
* v=0.5;
* m=3.5;
* g=9.81;
* f=m\*g;
* v=sqrt(((((f+(0.02)\*v))\*(log(v))^3)+(10\*v)+17150)/0.3);
* for i=1:inf

iter(i+1)=i;

v(i+1)=sqrt(((((f+(0.02)\*v(i)))\*(log(v(i)))^3)+(10\*v(i))+17150)/0.3);

cd(i+1)=abs(((v(i+1)-v(i))\*100));

if cd(i+1)<=0.00000000001

break

end

* end
* table=table(iter',v',cd')

COMMAND WINDOW

table =

20×3 table

Var1 Var2 Var3

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

0 239.05 0

1 294.2 5514.9

2 302.65 844.85

3 303.89 124.7

4 304.08 18.312

5 304.1 2.6871

6 304.11 0.39425

7 304.11 0.057844

8 304.11 0.0084868

9 304.11 0.0012452

10 304.11 0.00018269

11 304.11 2.6804e-05

12 304.11 3.9326e-06

13 304.11 5.7699e-07

14 304.11 8.4651e-08

15 304.11 1.242e-08

16 304.11 1.8247e-09

17 304.11 2.6716e-10

18 304.11 3.979e-11

19 304.11 5.6843e-12