

```
commandwindow
clear
clc
format long g
v = 0.5
for i = 100
    iter (i + 1) = i;
    v(i + 1) = sqrt(((500+(log(v(i)))*3)*(34.3+(0.020*v(2))))/0.3)
    ea(i + 1) = abs((v(i + 1)-V(i)/v(i + 1)))*100;
    if ea(i + 1) <= 1E-11
        break
    end
end
[iter'v'ea']
plot(v,iter)
axis tight
grid on
grid minor
```