

```
commandwindow
clear
clc
syms x
format short g
f= exp(-0.5*x)*(4-x)-2
f1=diff(f)
x=0.5;
for i=1:10
    iter(i+1)=i
    xf(i)=x
    x =double(subs(x-(f/f1)));
    xf(i+1)=x
    ea(i+1)= abs((xf(i+1)-xf(i))/xf(i+1))*100
    if ea>=1E-9
        break
    end
end
saloms= [iter' xf' ea']
```