

```
commandwindow
clear
clc
syms x
format short g
f = exp(-0.5*x)*(4-x)-2
fx = diff(f)
x = 0.5
for i = 1:10
    iter(i + 1)=1
    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
tablo = [iter'xf'ea' ]
```