

```
commandwindow
clear
clc
format short g
syms x
h = (exp(-0.5*x) * (4-x)) - 2
g = diff(h)
x = 0.5;
for i = 1:20
    iter(i+1) = i
    xf(i) = x
    x = double(subs(x - (h/g)));
    xf(i+1) = x
    Ea(i+1) = (abs(xf(i+1) - xf(i)) / xf(i+1)) * 100;
    if Ea(i+1) <= -1E-9
        break
    end
end
end
iter'
xf'
Ea'
tableau = [iter', xf', Ea']
```