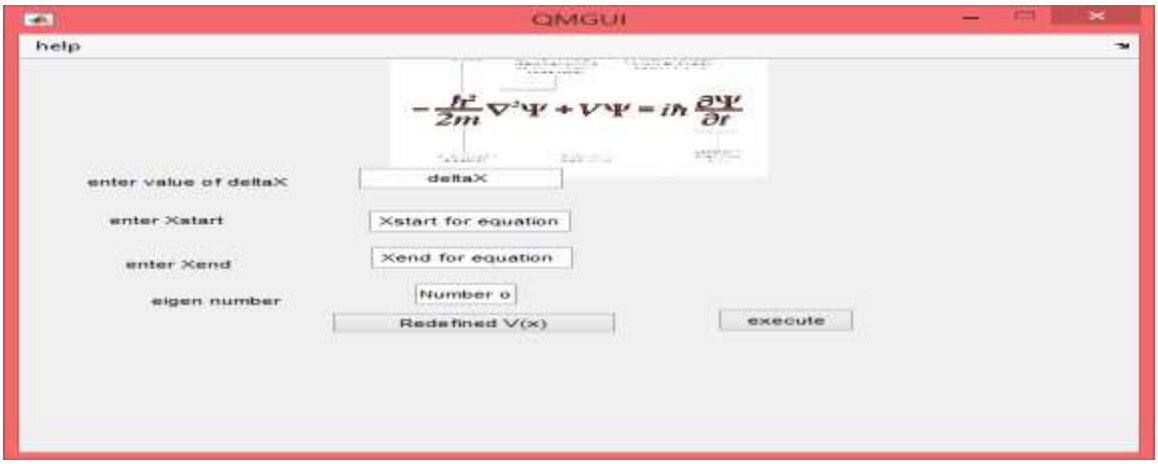
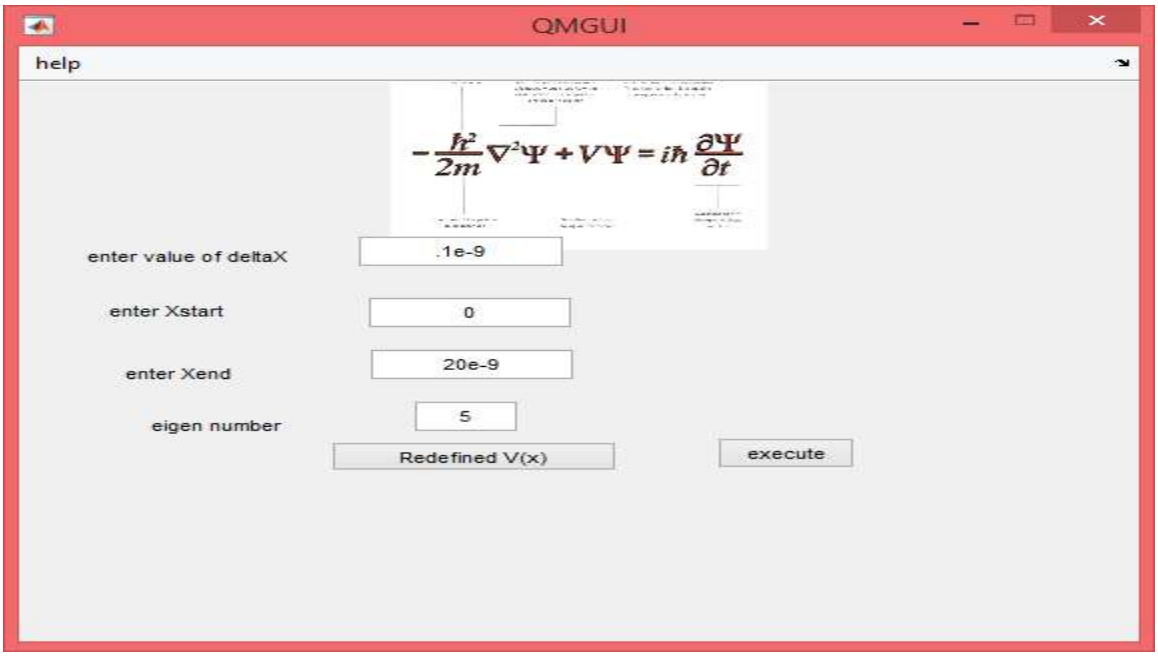
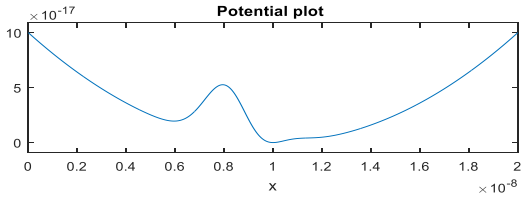
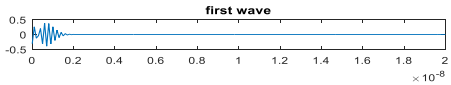
SolverWaveFunction(QM)

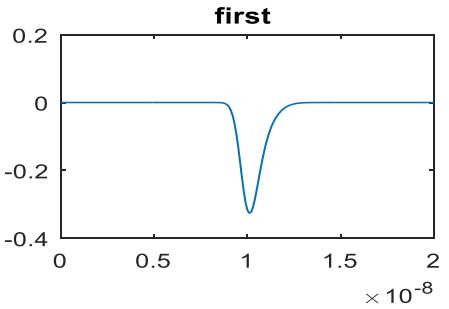
deltaX=.1nm

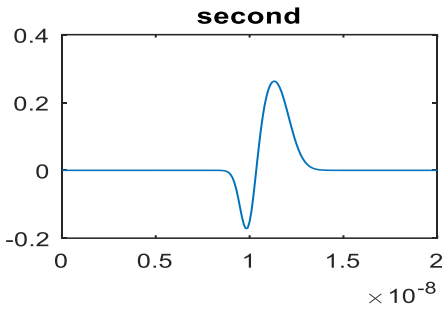


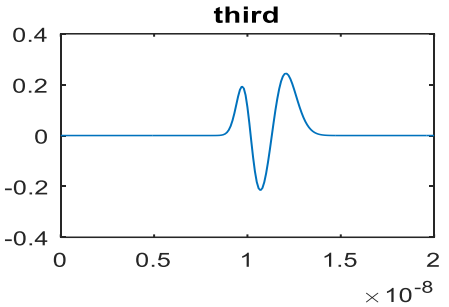


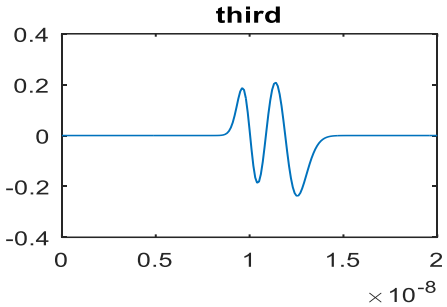

Potential plot
×10^-17
10
5
0
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
x
×10^-8


first wave
0.5
0
-0.5
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
×10^-8

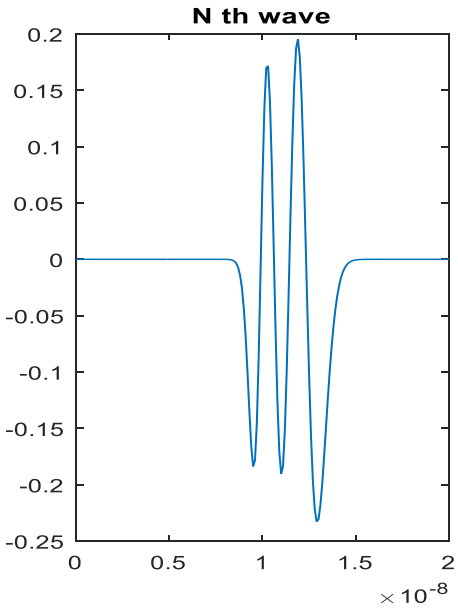

first
0.2
0
-0.2
-0.4
0 0.5 1 1.5 2
×10^-8


second
0.4
0.2
0
-0.2
0 0.5 1 1.5 2
×10^-8

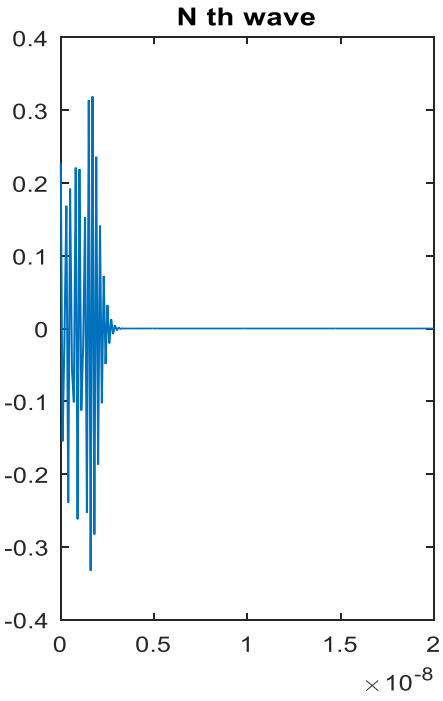

third
0.4
0.2
0
-0.2
-0.4
0 0.5 1 1.5 2
×10^-8


third
0.4
0.2
0
-0.2
-0.4
0 0.5 1 1.5 2
×10^-8

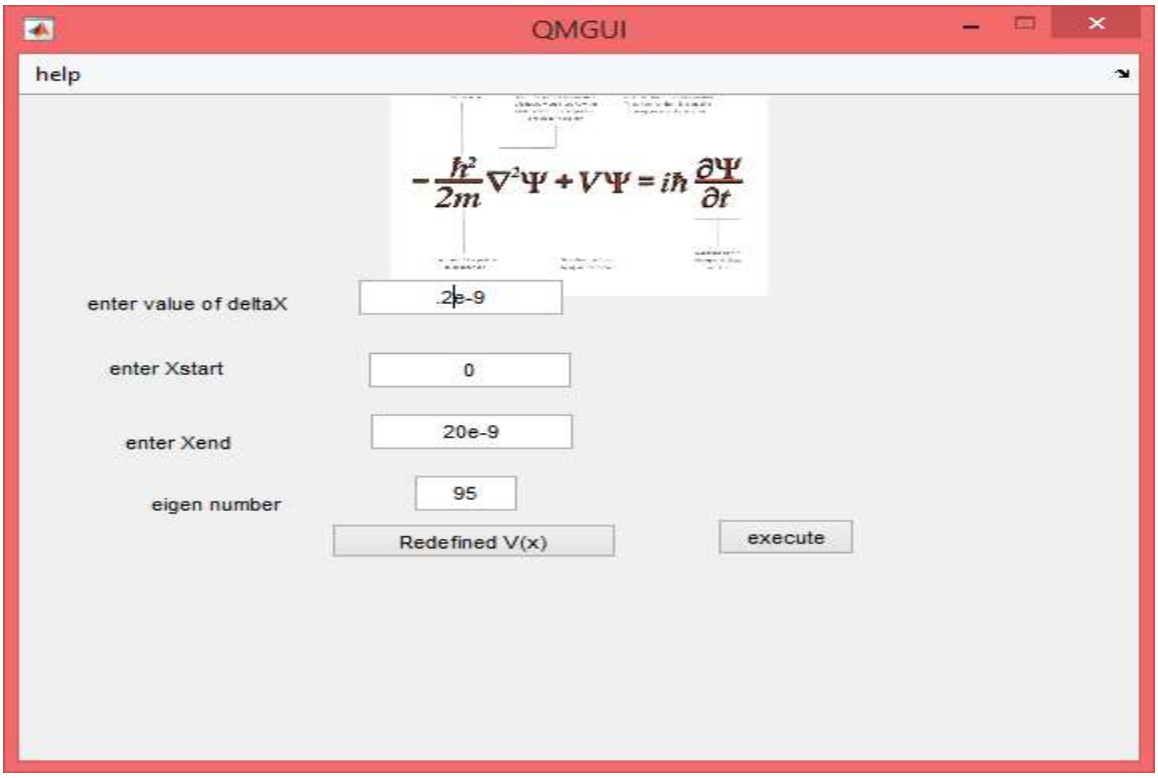
N=5

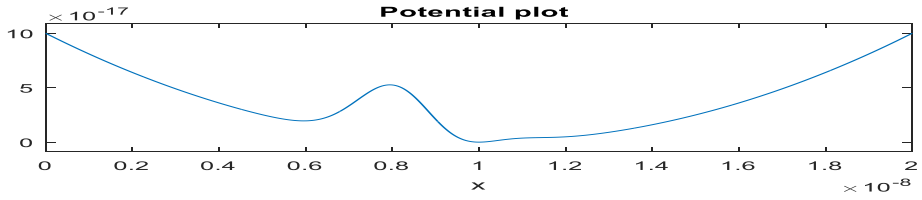


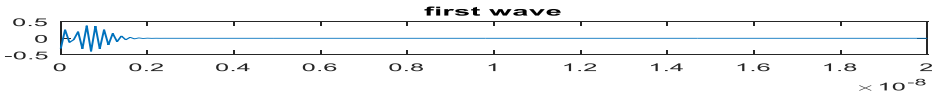
N=195

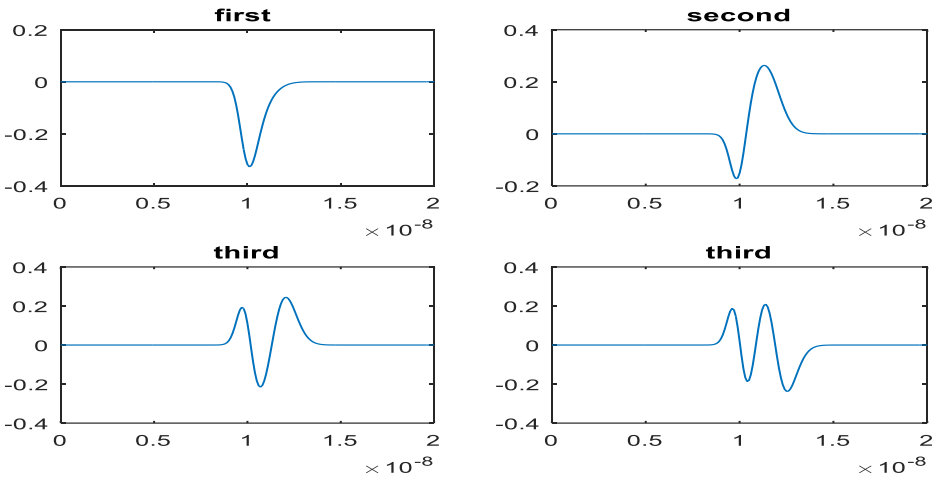


deltaX=.2nm

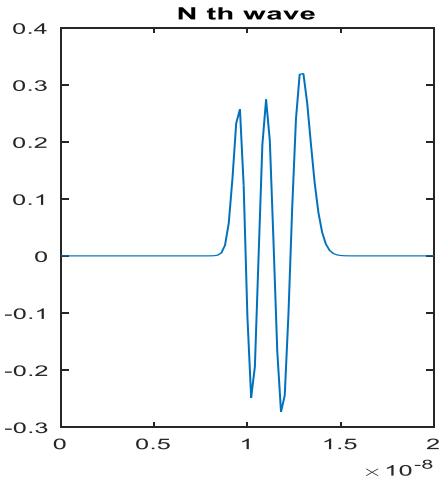

QMGUI
help
$-\frac{\hbar^2}{2m}\nabla^2\Psi + V\Psi = i\hbar\frac{\partial\Psi}{\partial t}$
enter value of deltaX
.2e-9
enter Xstart
0
enter Xend
20e-9
eigen number
95
Redefined V(x)
execute


Potential plot
× 10^-17
10
5
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
x
× 10^-8

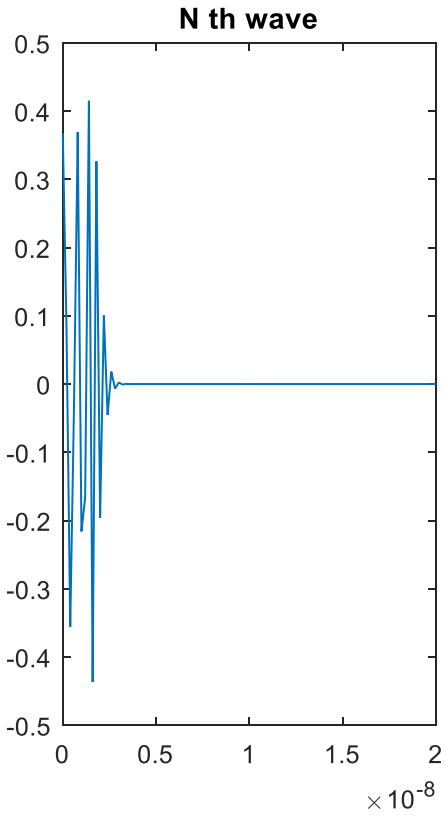

first wave
0.5
0
-0.5
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
× 10^-8


first
second
third
third
0.2
0
-0.2
-0.4
0.4
0.5
1
1.5
2
$\times 10^{-8}$

N=5


N th wave
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0.5
1
1.5
2
$\times 10^{-8}$

N=95



The End