**HW 2**

EE

20182327 이종건

1.

Given equation:

Will use equation (for electron):

Solve:

Use the condition which the electric field is a constant to the above equation.

For real space,

Initial condition: at

Therefore,

2.

(a)

Consider the equivalent energy line.

Where is the perpendicular distance between the line and \

And hence,

Finally, we arrive

Therefore,

(b)

(1D)

(2D)

(3D)