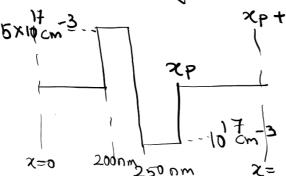
1. Consider the following dopant profile for a diobe



2p 200 nm.

Assume 2p appropriately

such that charge neutrality
is maintained.

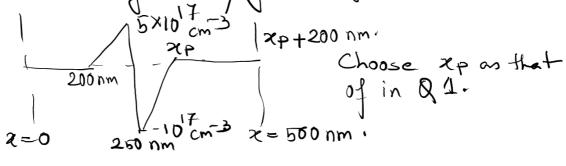
J. 10 7 - 3

50 nm 2=

J. 11

Plot the electric field and potential.

2. Repeat 1 assuming linearly graded junction as !



3. During actual fabrication, the doping profile usually takes the shape of Gaussian. Choose some Gaussian Profile and simulate electric field and potential You can conveniently choose the profile yourself.