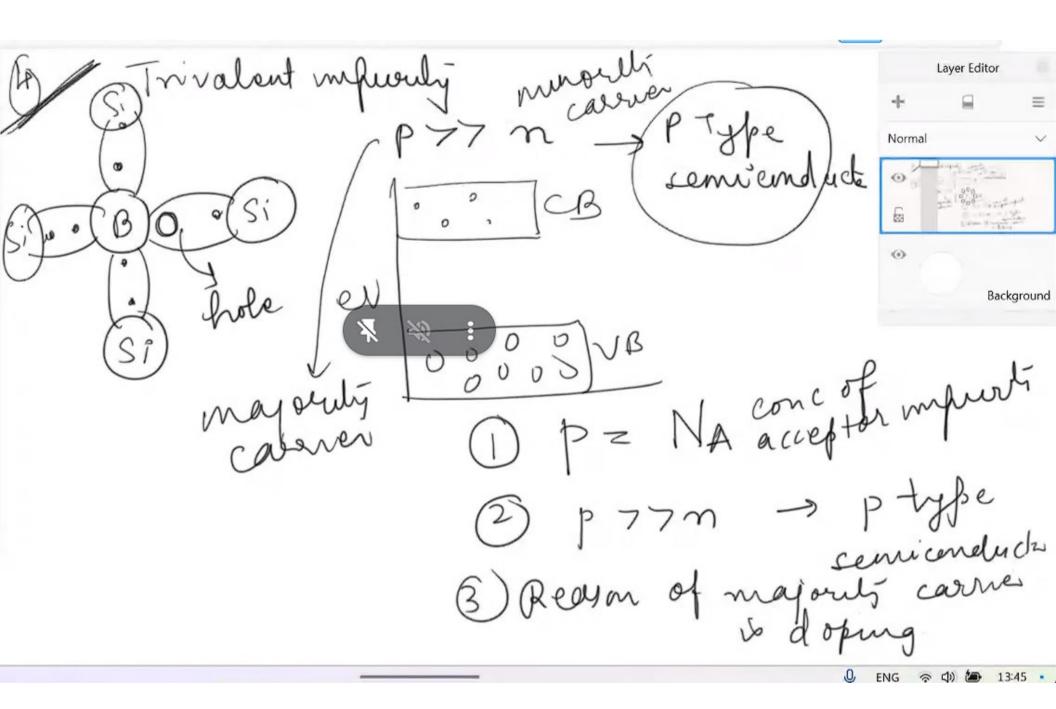
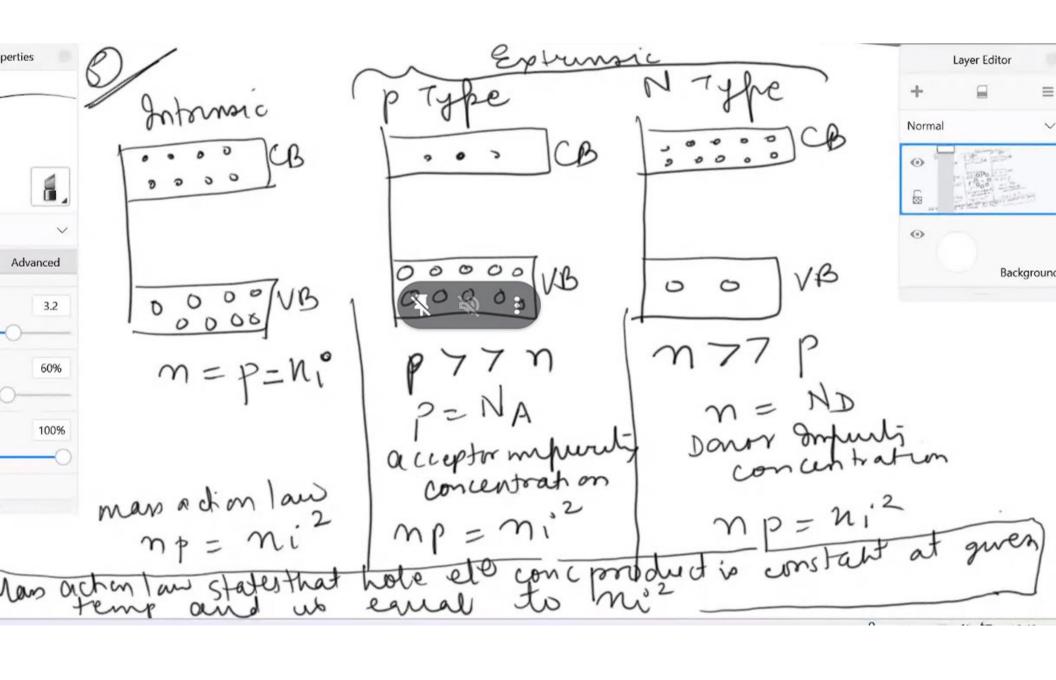
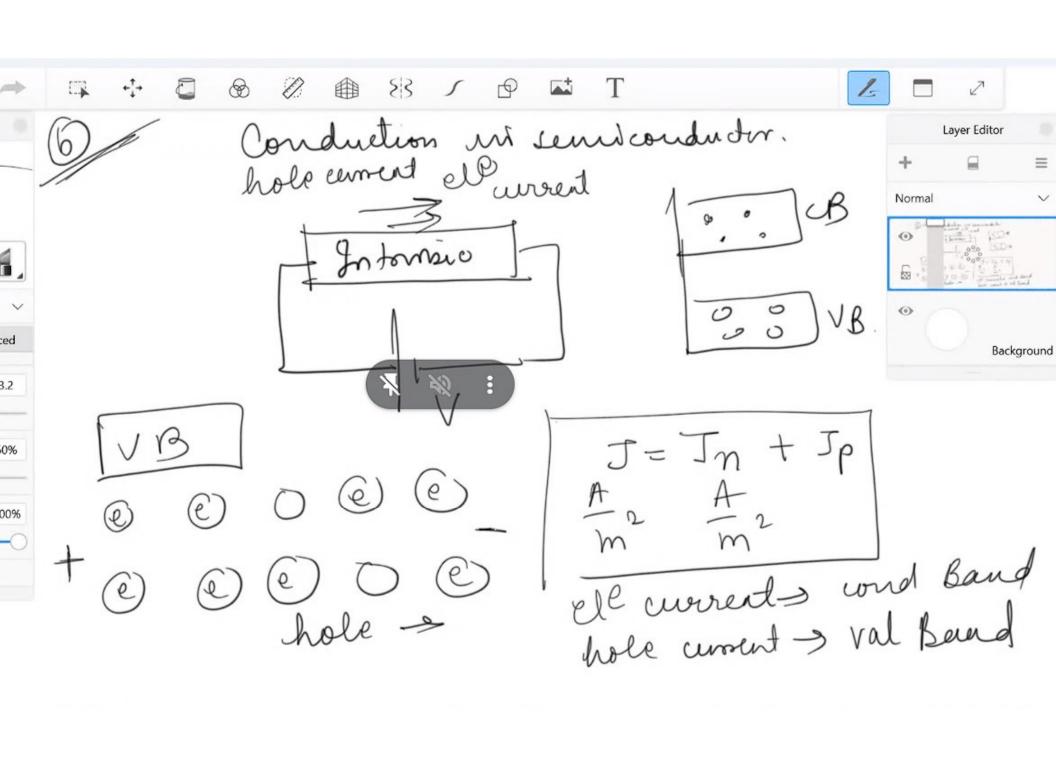


Layer Editor Normal Background ni = constant at a given temp As temp not

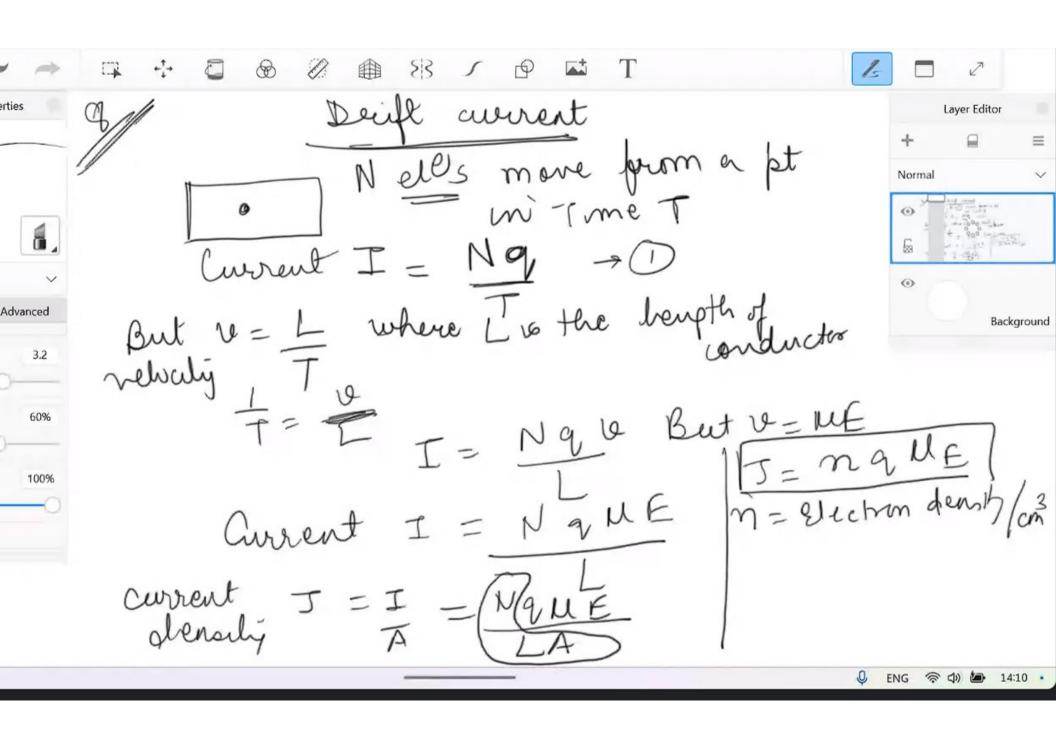
Externoco Layer Editor Normal Pentaralent Trivalent 0 Justinic, Phosphorus 22 Boron, In 0 Background 0 he semue of may seely m = ND - cour of gours majoril 1 labe







Layer Editor Normal Background atlained by al under the influence of



Layer Editor Normal conductor of elle J= Jn+ JP = ngllnE +pgllpE Backgroun Un- mobility of cles Expternoise Up= " " holes TE 6nf n - ele concentration ng, UnE P = hobe coreentrali E applied electric on-nglon - sonducety of eles GP= pq Mp - reondurche of hober resistants Pm= 1/6n Pp=

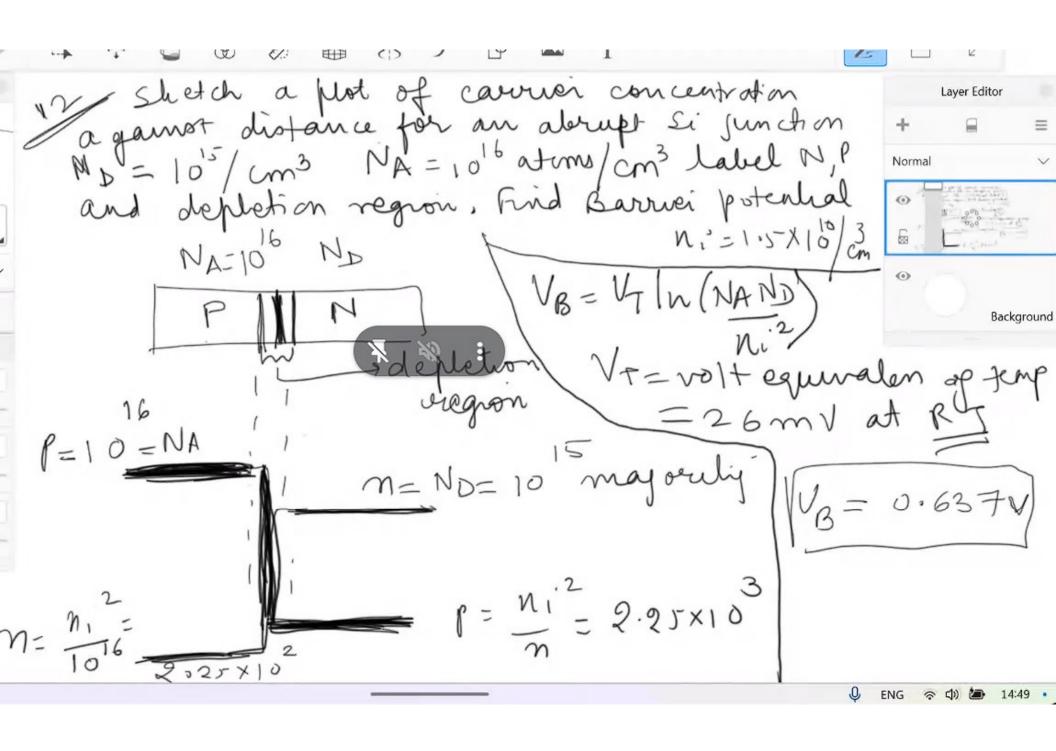
Calculate majoritz & minority carrier conc in a pilicon at reorm temp, if it is Layer Editor Normal e of peniconductor
1:5 × 10 / cm³ nd current donsity of Mn= concentration = 2 · 25 × 10

0 505 6 40 5 140

Ease 3 -> No doping

Las mondies semionde $p = N_i^2 = 1.5 \times 10^{10} / \text{cm}^3$





Junction Drode Layer Editor Charge carviers NA Normal have a tendency to more from higher to lower Background concentration has no mobile Charge carriers order that majority couriers was the Junction and external nollage soto be applied which is greater than equal to Barrier potential V2

