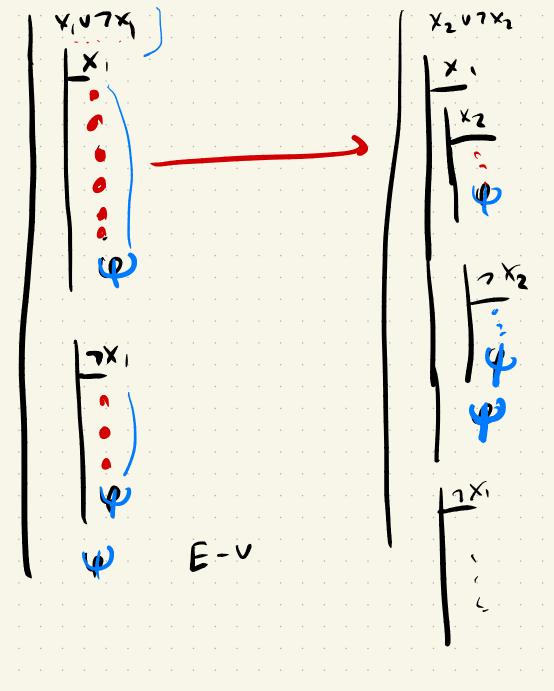
Lecture 14 1/ABAC 2 A B 3 A Let P. 4,4 be prop. formulas au 52 We say that 4.6 semantically imply

(4.4.4) iff 4.18 ~ 42/3 - ~ ~ Pul3 => 4/3 for any asignement p to SZ.

Theorem (Completeness) Let P. P. P. be some formulas on Se Then if ψ , ψ , then we can derive ψ from φ , ψ Proof WLOG & is finite Assume that R= 1x...xx3 L'onsider n=0 le ve neréto construct



be a prop formula or.

- Ky, let u, ... un E 4T, F3. $Y|_{X_1=u_1-\cdots x_n=u_n}$ con derve & hom Then we