|| P(T) = I - F(T)| $CDF(P) = P_{\ell}(P(T) \neq P)$ $= P_{\ell}(I - F(T) \neq P)$ $= P_{\ell}(f(T) \geq I - P) \qquad F(T) \text{ is invertine}. Apply } F^{-1} \text{ to bate sides}$ $= P_{\ell}(f \neq F^{-1}(I - P)) \qquad \text{by def of } CDF$ $= I - F(F^{-1}(I - P))$ = I - (I - P) $= P_{\ell}(I - P)$ $= P_{\ell}(I - P)$ $= P_{\ell}(I - P)$

Set 7

2. a. Kis Siglevel Oxis promot false reserve. 1-8 = 1 rob of not falsely rejecting (1-4) = prob of not rejecting all 1-(1-0)° = FWER b. As p increases, p misa increases. Thus, FWEM Increases as well C. From bernaulti's inequality: (1-x) = 21-xt X=K, t= 1. (1-x5°21-Kn. . - (1-p)° 4 «no -1. 1-(1-a) = Exn. V d. 1- (1-A) = EAn. 1-(1-9) 690.

as no lorget, Ning Somehave 1- (1- 0) " = FWEA & W e. K=Qr(aupt)

n-no = true negotias 1-18 1 - An Pr (False neg.)

if Sig. is K the prof falseney, is high

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