Benjamin Ngy en the tring traveled in John ter south mistly est in 9/12/20 when the test is proved to their set (1) : Come Les #04 I don't think I'll girl you exam questions on this: "Level of a test" alpha is drived app CType I error" 7 = alpha "15:30 or . exhety pater I PINI). example the level of aight was 5%, but the size up 7.06%. Shell alpha = 5% hos "unattainette" to 0 1 Ho is continued the level = size = alpha. It is liver, some sizes attenaby. It = not & livel or of=121. or the cost Ha: 868 Ha: 0700 GIH, Ha: 8 \$0. GHb

What we did in the previous restance was called a "binomial graces test" of one proposion. Downsiers: (1) you need a binomal part calculator and it a set or wine to get me notainment cession (d) not all sites me attempts.

Let X, X2,..., Xn a ii & some distribution with men M mi valuel 8. The Clt

X-M 1 [moregone in & stanta"! As a jets loge, whe like tell court; little loons on the RHS COF.

=> x ~ N (m, o) m T = x,+...+x, ~ N (nm, no).

If X, ... , Xn will Bern(0) and n is "loge" then: Q= X is N(0, OCI-01) protty good approximation & & is not too con-

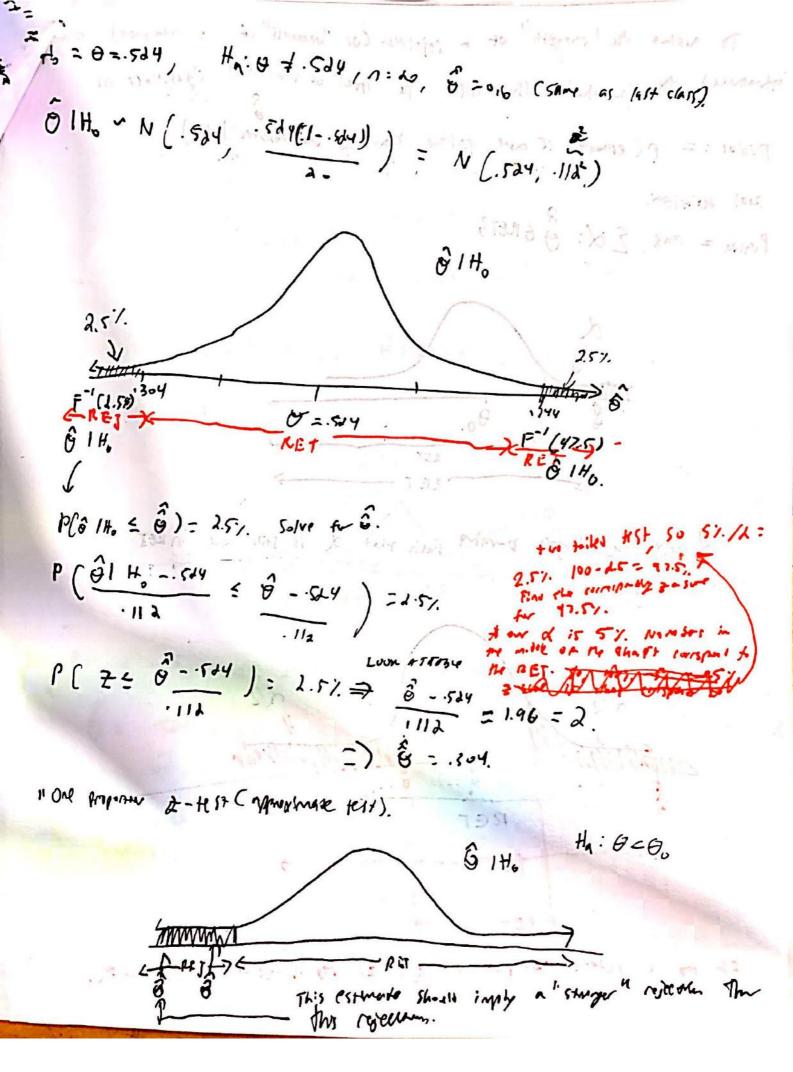
How to perform on "approximate test"? There are many many, options for the sec our.

To poto cul gel as endors: (1) you think of a "tex statistic" that could mean a deparame my tra

to 0 or 1.

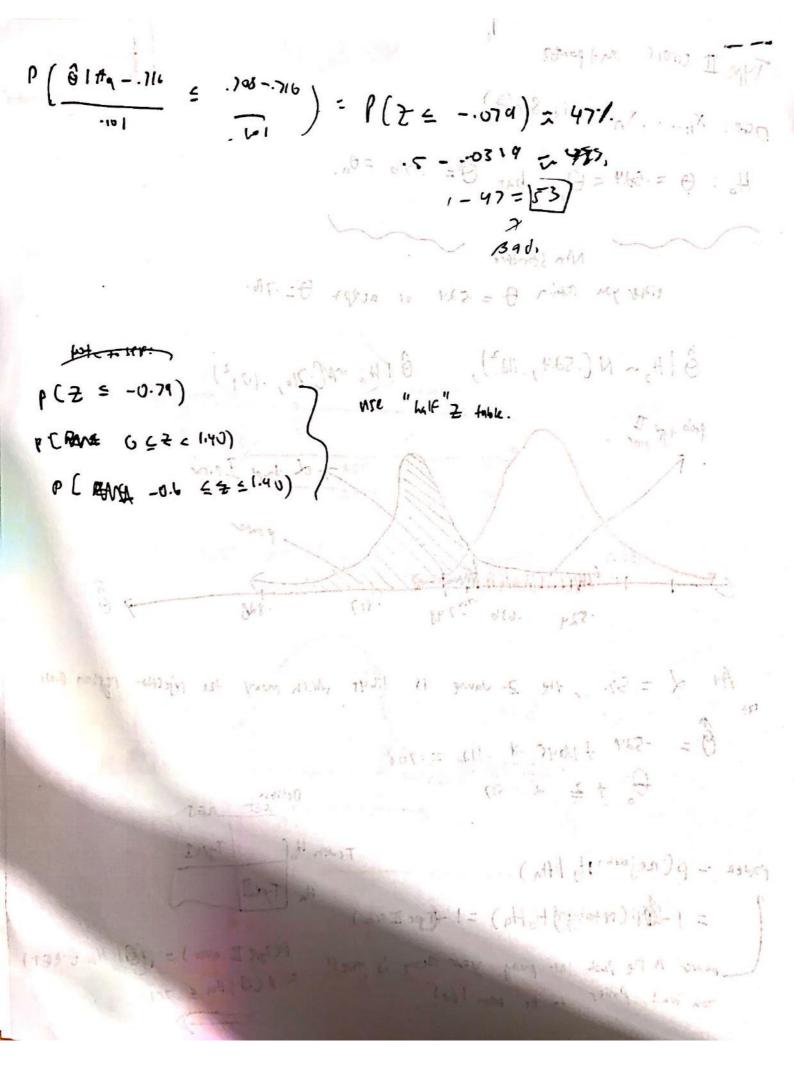
Of periore the startument estimator's "approx" distribution under 40. (3) Conge the separal of of four the salle of the distributes

Elthe at I'm I & a.



To realize the "strength" of a rejecter (or "someols" of introduces the up-voke" also (114) the livel of statistical significace as: prolue := p (estimate it mure extreme than the me observe 1 1to) real de initia. Prove = max Ex: & ENET3 $\dot{\theta}_{o}$ RET of max! The largest b-rate such that of is still inside RET

I charl and bones Oce: XII... Xn cm iil Ben() Ho: \(\theta = .524 = \theta \) but \(\theta = .716 = \theta \). Mn Student either you rain of = .524 or acepy &= .716. Ĝ | Ho~ N (-524, 1122), & (H. MC-716, 1012) bop the II .636 -7 4g At d = 5%, the 2 same is 1.645 which mens the rejection region and g = -524 + 1645 + . 112 = . 708 0 +2 * 50 Type 1 power - p (nejeurn Ho 1 Ha) = 1- (retaining HoHa) = 1 - (type It ein) PCTyre II evar) = ((G) Ha tret) - power is the past at pury you thong is twel! = 1 (0 (ta 6.701) you was fores to be been 100!



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