MATH 301/601 LEC Z	
Xing, Xn de Bern (e). You want points assume for O.	
D= \( \sums \subset \text{Xi}  \text{S.}  \text{Pexo} = \frac{1}{2} \\  Common serve should tell you the along greens the single value is idea. In lets the if our theoretical framount can show my in idea. In lets the if our theoretical framount can show my in idea.	
Common serve should tell you the plays greening the single value is	a bad
idea. In leto se if our theoretical transmit can soon of "	
Find $q$ all, $\hat{\theta}$ is subject.  Gins $\left[\hat{\theta}_{LAD}\right] = E\left[\hat{\theta}_{LAD}\right] - \theta = \hat{z} - \theta$ $\hat{z}$ $$	
Bing (8 40) = E (8 600) - 0 = 2 - 0	
- a is bigsel for glows all value of DEG.	(.
How also rok? Mean loss. If loss = 59d on loss, rist,	i=1958.
MSE(8) = O(1-0) from Be Z	
MAR ( DEAD) = Var (DEAD) + BES (DEAD) - 0 + (2-0) = (0-2) 3	
Nove: as 47, MSE(8) I has MSE(BEAD) dosing I! This bond!	
You was your estation to get more accernic to pan Engle grant	7,
In emph for n=10 of Estimon Theory is really cool	but
to fortunely there is no my	ore the
for it	
There is a small bregion of Do whose OfAD is now accounte them  (and is not look as to the cooper). This is usually the case, Estates connected	á.
(and this region drinks as in increases). This is usually the case, Estates conner be	espeehl
(9h) An region grants 40 to Coupre to Curres? Ok open	2 6
He "mound risk" movie i.e. sup 286,03. In an case	
Sup Smite (Bland) 15 sup (MSE(8)) - 44 so d beats Plats.	

Are CFO'S real? Big suppry. Notober truly knows!

= no my se comme you either my absolute good regulareally.

Let's say I have to comme by you that UFO'S one real.

The starger

E) I affect I'm right and you all how to diprie me And by sheer force of chimina are you not being the to comine me Hurthy are harpyrainly affected. I'm way and then show you culture. If I show you enough cardine, eventually yould be considered. Ahm to proof by constitution

Which strokens is better to conne?

It. It's mon intellected house (I can that you). I will not more believes, It's more hover especially of I have a vested, moreton interest in consumy people I'm right. If I'm changing the stooms que, this is the only my it norks.

Gool #7 of Statistical informe: thoogy topping.
This is a logical structure to grow a molement theory.

about a 06P.

For comple, I mould like to consider you, then
the ren prop, of ilhour in CCNV 300-boul STEM classes

(our assure pop-of improve from last needs sorrage), D is
not the American arrange of 52.4%.

A hypostisio io a mideratul statut short a pap, paren of token eg. D=.52A or D>.529 or D<.529, D+.839 on The "oftensine hypostisi" His is what you'd like to prove and the nell hypostisio to is the apposite of the by the logal signet for before, he first assue to, the transfer evidence, ô which happfelly is "significan" enough to consider you that the is wrong, so you accept the. Typical sesses in a star 101 class

Ho:  $0 \le 0_0$   $\iff$   $H_n: 0 > 0_0$  right-taild or right-sidel tend tho:  $0 \ge 0_0$   $\iff$   $H_n: 0 < 0_0$  left-taild or left-sidel tend tho:  $0 = 0_0$   $\iff$   $H_n: 0 + 0_0$  the-taild or the-sidel tend tho:  $0 = 0_0$   $\iff$   $H_n: 0 = 0_0$  eggindere tend (NOT COVERED)

Upon doing a hypothesis test, there are the Lexiles: (I) There is 'Statistically significan' enden again to => Hy is acque!

(IT) There is not stat sity ender egain Ho => You are comme! (II) There is not stat sity ensure egain Ho => He is restable or "we fail to week to". You are not comme. Hon do ne decide the assesse of the test? First hate stones man different type of tests, lade with different sublettes and assuption. Thy doing agree ... All tests Examine 9 Year Stappings. The test Stapping Janges deposere from Hois safting disorders. Fitze exople: I now to prove the iPhase num prop is different them the Armoun open of ,524. When me the hypeothese? Ha: 07.52A @ Ho: 0=.52A Test stranger? &=== 2 = . \$76 It is chear, 776 \$ ,524. Should be typer to? No, because de sing not be signifiante neid if 8=.524 because the singling distr of 8/40 may copies de. Who is & | Ho? well &= = 1 (X,+..+ X2,) = 218=X,+..+X1 - Blan (2).52 21 529 (1-529) Lets plot it he assumed it bem (,529)

( Sel Corporer)  $\rho(\hat{g})$ - Regent to > E Regne the > E Regne the > What is tensandle grow the is the? Who is Stepshally significang! neigh? This is called Ersidel RET = { ... } Biromy Bourt Test he used the brainile the brainile distributed the lone proposar of PMF of Non he comme de test sortité. If. D & RET -> Reject Ho DERET => Rem to Stre DERET, re setom to que conclude "there is not Sporture ceidence to conclude the Phone prepara is not .524" Does this run we accept the: 0=,524! No. It ist mans its a good enough theory for non, we mondis réget toi 0 = .527 000) either nor l'issinte ofter Hos. This is actually how science works. he had F=Ma, Nautin Lans for 390+ yr before Etitlein shoul obje wrong

less say is can our differently, we ignered He. Is is possible ne can mile a mistable when regreting to? Yes. The REJ set still is possible but Galley.  $P(\hat{\partial} \in RET) = P(\hat{\partial} = 0) + ... + P(\hat{\partial} = 1) + P(\hat{\partial} = 1)$ = P (Type I error) = "size" of If your going to van a test that rejects the "size" of the time, you have to be only high being wrong "size" of the time Of of lend: if a test has size = level = <, the test is sould to be level &". X=51. } yes Can sie be 5%? No. Can sie be 1%? No. Not all sizes possible of soughing down, directe COF of Branie Size = { P (P=L) + P(P=U) = FB (21L, 21, 524) + (1-FB (21(U-1), 21, 1524): LZU, L,U = 80,1, ..., 2133

he retaine to. Is it possible re made a mirribe? Yls. Ne shadde igste Ho stree et is truly felse. This is a Type It arrow. P (Type If on) = completed Ho true Type I en You control max probyge I V4 Krena error un pickry siæ. Ho false Type Hen 1 maly You reduced come prob type I est though see as well. P(Type Ien) I ( P(Type I en) 7 P(Tye Den) I ( ) P(Tye Den) 7 Cosmiz whack- a-mole Cohleman: <= 5% or <= 1%. this's Cossibled sopofine", We are consense to reson to since ne doing nous to essept cong obacing