Shaf Y MR:

	Can you see? hear?				
	Sa	uple si	te calcu	lation	
	•				
	Samp	e A Y	, Yr	Yn	
	Sann	le B X	1, X2	X	
Íń	namy.				
	cases. of Yi	< 80,13 X	$c, \in \{0,1\}$		
	(b) Y:	EIR X; E	IR		
	many cases. Of $Y_i \in \{0, 1\}$ $X_i \in \{0, 1\}$ (a) $Y_i \in \{0, 1\}$ $X_i \in [R]$ H ₁ : $\mu_x - \mu_y \neq 0$ $\mu_x - \mu_y > 0$ And cases.				
	n,? ns!				
	No				
	H				
		11 > 20	Hors reg		
		the is not			
	No & true	U	I type error		
	hx is two	Il type veroe	<u> </u>		
	2= p(Ho is rej Ho is true) p= p(Ho is not rej He is true)				
		1 - p (W	is not reil k.	is true	
		> - 1 (110	31"	/	

	Problem 1.
10	V V (013
exp.	group X_1, \dots, X_{1} $X_1 \in \{0,1\}$ $X_2 \in \{0,1\}$
Com	r. group Y Yny All var-s are moleps
	X: ~ Bernoulli (pg)
	Y: ~ Bernoulli (Pa)
	$H_0: P_B = P_A$ $H_A: F_R > P_A$ $0'' - 6nd$
	HA: FB > PA
	Budget court n _B + n _B = (n) fixed
	Choose best na and no.
	$\frac{1}{2}$
	doing do
	be desired value of L The value of (3) is minini 2ed.
	let's recall the ord. fest.
	Let s ce call the own obs. $ \begin{array}{cccccccccccccccccccccccccccccccccc$
	$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = 1$
	se (ps-pn)
	se (ps-pa) = 2 veit de not rejed !!
	$Se\left(\frac{\Lambda}{\rho_{B}} - \frac{\Lambda}{\rho_{A}}\right) = \sqrt{\log\left(\frac{\Lambda}{\rho_{B}} - \frac{\Lambda}{\rho_{A}}\right)} =$
	$= \sqrt{\hat{p}_{B}} + \sqrt{\hat{p}_{A}} = \sqrt{\frac{\hat{p}_{B}(1-\hat{p}_{A})}{n_{B}}} + \sqrt{\frac{\hat{p}_{A}(1-\hat{p}_{A})}{n_{A}}}$
(under Ho: Sary N(0:1)
	1 mil

where is 3. $H_{A}: p_{B}-p_{A}= \bigcirc$ $\Delta > 0$ S=PB-PA-O = (!) subfract 0 but you should, hebtract s. se(pg-pA) shifted to the rophit. N(Oil) under to right dec. j'u come dec. under HA --/·/-/-/-/-/-/> Post dec. wrong dec. -> Ho >> rej ho is not rej $\operatorname{Vou}\left(\stackrel{\wedge}{p_B} - \stackrel{1}{p_A}\right) = \stackrel{\wedge}{p_B}\left(1 - \stackrel{\wedge}{p_B}\right) + \stackrel{\wedge}{p_A}\left(1 - \stackrel{\wedge}{p_A}\right)$ $|\nabla P_{B} - P_{A}| = |P_{B}(1 - P_{B}) + |P_{A}(1 - P_{A})|$ NB+ NA = M nihn PB(1-PB) + PA(1-PA)
9/1 (1-9)·N $M_{\mathbf{B}} = \mathbf{Q} \cdot \mathbf{M}$ $M_{\mathbf{A}} = (\mathbf{Q} \cdot \mathbf{M})$



