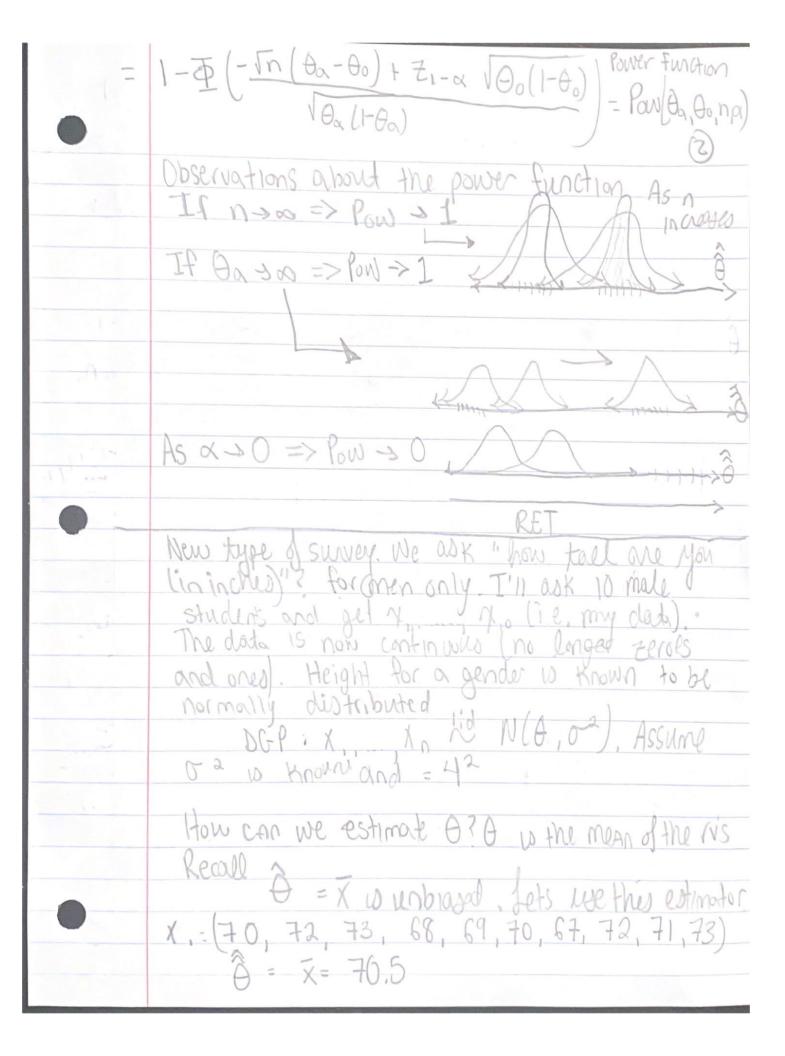
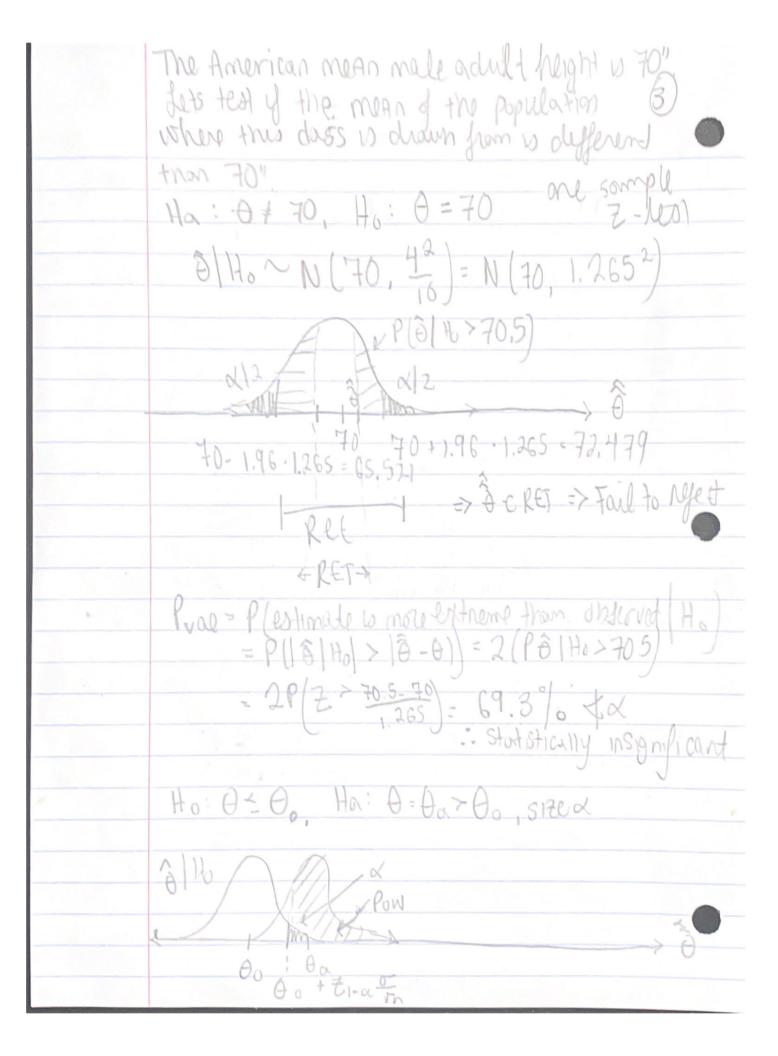
Victoria Combardi MAth 369 leduie 5 Lets look at power more generally (beyond 2 point hypothus)
Ho: O = Oo, Ha: O = Oa > Oo right tailed test Under iid Bern (D) and the normal approximation type I Al Ha Power (Pow) Sulow Oct 21-0 1000-00) det Φ(Z) = F2(2)

COF of N(0,1) d=590 => 7-d = 1.645 Q(Z,-a)=1-a Pow-P(0 Ha > O+ Zing (1-00) = P/ () Ha - Oas Oo + Z, - a \ () O O O O Jacl-Oa = P(Z>-\in (\theta_0-\theta_0)+\forall-\theta_0)
\V\theta_0(1-\theta_0)





1 Ha - Da > Do + Zi - Z Fr - Da $D\left(-\frac{1}{5}\left(\Theta_{\alpha}-\Theta_{\alpha}\right)+\overline{\xi}_{1-\alpha}\right)=Pon\left(\Theta_{\alpha},\Theta_{\alpha},n,\alpha,\sigma\right)$ More realistic: we don't know sigg, But sigg is a "nuisance parameter". It most is we need to estimate it in order to estimate a but we don't intrinsically care about it.

DGP: X, , X, rid N(0, or) and both of ore How do we estimate signing? Kecall ... for a ru Isthis estimator unbrased? For any iid DOP 000 + 02 - nE[X,2 + X, X 2 + ... + X, X n] + 5 = U+1 C-3 + JO3 - 3 (Q3+ O2+ O2+ -+ O2) = U-Its a little bit blossed.

