Assignment 2: 1. (a) N=4400 $\hat{L}=0.2$ L=0.03 $\frac{19}{20}=0.95 \Rightarrow c=1.96$ Gengyau Yuu 2.61501 N= (1+ + 12) $= \left(\frac{1}{4400} + \frac{0.03^{2}}{1.96^{2} \cdot 0.1(1-0.21)}\right)^{-1}$ = 592 is the required sample size 4) L=0.04, since no information about proportion of students, we pick up £=05 $n = \left(\frac{1}{N} + \frac{L^2}{c_{121}}\right)^{-1}$

 $= \left(\frac{1}{4400} + \frac{0.04^{-1}}{1.96^{1} \times 0.15}\right)^{-1}$ = 528

(1) 元=6.25 2=0.25(1-6.25) 1= N+ L3 $L^2 = c^2 \hat{\delta}^2 \left(\frac{1}{n} - \frac{1}{N} \right)$ L= 1.962. 0.15(1-0.15)(1/427 -4400) L1 = 432-18 0,0012

They are not same because we pick the maximum \$\frac{1}{2} = 0.5, thus make the cd) 0.0346 \$0.04 L's also the logost witch is 0.04, so the L'we get in (C) is 0.0346 < 0.04.