Assignment - 6 A cae company believes that the percentage of lesidents in city ABC that owns a vehicle is 60 1/00 les Arothes A sales manager disagrees with This. He conducte a hypothesis testing surveying to owing a vehicle. (a) State the new and alternate hypothesis (b) At 10 / significance level, is there enough evidence to support the idea that vehicle ownership is city ABC is 60%, or less? Soln: Ho: $P_0 = < 60$ H,: $P_1 \neq < 60$ Gwen:- n= 250, x= 130 $\hat{p} = \frac{x}{n} = \frac{130}{250}$ = 0.52, Po=60/.=0.6 90 = 11-po = 1 - 0.6 = 0.4pd=10%=0.1 gCI=90%=) d=1.645 Decision making Calculate 2 - test Statistics 2 - test = - P - Po \[\frac{P_0 \ P_0}{D} \]

0.52 - 0.4