Assignment 2 test with proposition

ABC that owns a vehicle is 60% or less. A sales manager diagree with this. He conducts a hypothesis testing Surveying 250 residents and found texat 170 responded yes to owning 9 vehicle.

(a) state the rull of and alternative hypothesis

(b) At 20% significance level, is these enough oridense to support the idea that vehicle ownership in city ABC is 60% or less 9

Ho = Po = 60% (Null Hypotuesis)

$$\hat{P} = \frac{x}{n} = \frac{170}{250} = 0.68$$
 and  $q = 1 - P_0 = 1 - 0.6$ 

one tail test

$$2_{\text{rest}} = \frac{\hat{f} - \hat{f}_0}{\sqrt{6 + 6 \times 6 \times 4}} = \frac{0.68 - 0.6}{\sqrt{0.0009 \, f}} = \frac{0.08}{\sqrt{0.0009 \, f}} = 2.58$$

€ 0.9951 < 0.1

Prature less we reject the Hull Hypornesis