Q. A car company believes that % of residents th aty ABC that owns a vehicle is 60% or less. A Sales manager disagress with this. He conducts a hypothesis Festing surveying 250 residents and found that 170 responded yes to owning a vehicle (a) State the null of alternate hypothesis. (b) At 10% Significance level is there enough evidence to support the idea that vehicle ownership in city ABC is 60 % or less? ≥ Hora ABC Owns vehicle < 60%. HI ABC dons vehicle > 60%. 1 n= 250 Po=0-6=3/5, 90=25 P= 170 = 1/25 17-15 J25X 250 Z= p-po \[\frac{p_0 q_0}{n} \] J 3/5 2/5 = 2 xx J8 Z = 2 × 1.29 = 2.58 & signifiance level = 901 -> d= 0.1 for one tail z test → from one trail 2 table -> 2= 1.29 Since Z=2587 1.29 & Reject Ho = ABC Owns wehile 760%.