Sol-3 $n = 250$

As, $n > 30$, we will use z-test

a.) $H_0 : P_0 \leq 60\%$
No. of people who owns a vehicle
is less than or equal to 60%.

$H_1 : P_0 > 60\%$
No. of people who owns a vehicle
is more than 60%.

b.) $\alpha = 0.1$
$C.I. = 0.9 \ (-1.29, 1.29)$

$\hat{P} = 60\%$
$P_0 = \dfrac{170}{250} \times 100 = 68\% \ \text{or} \ 0.68$

$q_0 = 1 - P_0 = 0.32$

$z\text{-test with} \atop \text{proportion} = \dfrac{\hat{P} - P_0}{\sqrt{\dfrac{P_0 \, q_0}{n}}}$

$$= \frac{0.6 - 0.68}{\sqrt{\frac{0.68 \times 0.32}{250}}}$$

$$= \frac{-0.08}{0.029}$$

$$\boxed{Z\text{-score} = -2.76}$$

As, Z-score value is not in the acceptance range. Z-score < -1.29.

Therefore, Null hypothesis is rejected.

Conclusion: No. of people who owns a vehicle is more than 60%.