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$$\hat{p} = \frac{145}{350} = 0.414$$

$$(1) H_0 = p \leq 0.4, H_1 = p > 0.4$$

$$(2) \alpha = 0.05$$

$$(3) \text{棄卻域} = \{z > z_{0.05}\} = \{z > 1.645\}$$

$$(4) z = \frac{\hat{p} - p_0}{\sqrt{\frac{p_0(1-p_0)}{n}}} = \frac{0.414 - 0.4}{\sqrt{\frac{0.414(1-0.414)}{350}}} = 0.532$$

故不棄卻虛無假設