

例 7.1

$$(1) H_0: \mu \geq 350$$

$$H_1: \mu < 350$$

$$(2) \alpha = 0.05$$

$$(3) C = Z < Z_{0.05} = Z < -1.645$$

$$(4) Z = \frac{347.188 - 350}{\frac{6.270}{\sqrt{52}}} = -2.54$$

棄合 H_0

例 7.2

$$P = P(Z < -2.54)$$

$$= 0.0055 < \alpha$$

棄合 H_0

$$1. H_0: \mu \geq 198$$

$$H_1: \mu < 198$$

$$(2) \alpha = 0.05$$

$$(3) t_{0.05}(9) = -1.833 \quad T < -1.833$$

$$(4) \frac{190 - 198}{\frac{13.16}{\sqrt{10}}} = -1.922$$

拒絕 H_0

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$$2. (1) H_0: \mu = 420$$

$$H_1: \mu \neq 420$$

$$(2) \alpha = 0.05$$

$$(3) Z_{0.025} = 1.96, |Z| > 1.96$$

$$(4) \frac{423 - 420}{\frac{12}{\sqrt{100}}} = 2.5$$

拒絕 H_0