

例7.1

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

$$H_1: \mu < 350$$

$$(2) \alpha = 0.05$$

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

$$(4) Z = \frac{347.188 - 350}{\frac{6.270}{\sqrt{32}}} = -2.54$$

棄卻 H_0 #

例7.2

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

$$= 0.0055 < \alpha$$

棄卻 H_0 #

例 7.6

(1) $H_0: \mu_1 - \mu_2 \geq 0$

$H_1: \mu_1 - \mu_2 < 0$

(2) $\alpha = 0.05$

(3) $C = \{z < -1.645\}$

(4) $z = \frac{6.98 - 7.20}{\sqrt{\frac{0.98^2}{200} + \frac{0.95^2}{180}}} = -2.801$

拒绝 H_0 #

例 7.7

(1) $H_0: \mu_1 - \mu_2 = 0$

$H_1: \mu_1 - \mu_2 \neq 0$

(2) $\alpha = 0.05$

(3) $\{ |T| > t_{0.025}(10+8-2) \} = \{ |T| > 2.12 \}$

(4) $sp = \sqrt{\frac{9 \times 0.653^2 + 7 \times 0.629^2}{16}} = 0.642$

$T = \frac{7.728 - 7.546}{0.642 \sqrt{\frac{1}{10} + \frac{1}{8}}} = 0.598$

不拒绝 H_0 #