

6. (1)  $H_0: \mu = 4.3$ ,  $H_1: \mu \neq 4.3$   $\alpha = 0.05$

$$C = |Z| > z_{\frac{\alpha}{2}} = |Z| > 1.96$$

$$Z = \frac{4.65 - 4.3}{\frac{1.26}{\sqrt{40}}} = 1.757$$

不棄卻  $H_0$ .

(2)  $H_0: \mu = 4.3$   $H_1: \mu \neq 4.3$   $\alpha = 0.05$

$$C = |Z| > 1.96$$

$$Z = \frac{4.65 - 4.3}{\frac{1.26}{\sqrt{80}}} = 2.485$$

棄卻  $H_0$ .

7.  $H_0: \mu_1 = \mu_2$ ,  $H_1: \mu_1 \neq \mu_2$   $\alpha = 0.05$

$$C = |Z| > z_{\frac{\alpha}{2}} \quad C = |Z| > 1.96$$

$$Z = \frac{3.83 - 40.1}{\sqrt{\frac{40}{100} + \frac{30}{80}}} = -2.045$$

棄卻  $H_0$ .

8.  $H_0: \mu_1 = \mu_2$   $H_1: \mu_1 \neq \mu_2$   $\alpha = 0.05$

$$C = |Z| > 1.96$$

$$Z = \frac{32 - 34}{3.430 \sqrt{\frac{1}{64} + \frac{1}{81}}} = -3.486 \quad S_p = \sqrt{\frac{63(3.2)^2 + 80(3.6)^2}{143}} = 3.430$$

棄卻  $H_0$ .