

5/19 實習作業 A107270047 企管 = 甲杯羽片

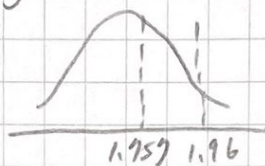
6.  $\bar{x} = 4.65, s = 1.26$

(1)  $n = 40, \alpha = 0.05$

$H_0: \mu = 4.3, H_1: \mu \neq 4.3$

$Z_{0.05} = 1.96$

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



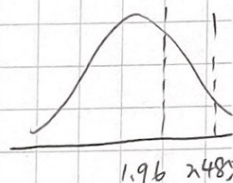
不拒絕  $H_0$

(2)  $n = 80, \alpha = 0.05$

$H_0: \mu = 4.3, H_1: \mu \neq 4.3$

$Z_{0.05} = 1.96$

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

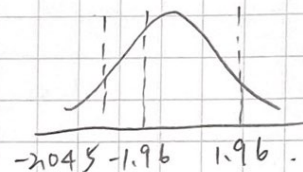


拒絕  $H_0$

7.  $H_0: \mu_1 = \mu_2, Z_{0.025} = 1.96$

$$\frac{(\bar{x} - \bar{y}) - 0}{\sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}} = \frac{38.3 - 40.1}{\sqrt{\frac{40}{100} + \frac{30}{80}}} = -2.045$$

拒絕  $H_0$

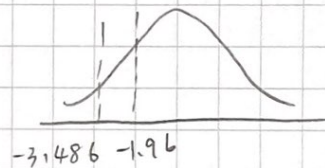


8.  $H_0: \mu_1 = \mu_2, H_1: \mu_1 \neq \mu_2$

$$SP \sqrt{\frac{1}{n_1} + \frac{1}{n_2}} = 3.430 \sqrt{\frac{1}{64} + \frac{1}{81}} = -3.486$$

$$SP = \sqrt{\frac{(n_1 - 1)s_1^2 + (n_2 - 1)s_2^2}{n_1 + n_2 - 2}} = \sqrt{\frac{63 \times 3.2^2 + 80 \times 3.6^2}{143}} = 3.430$$

拒絕  $H_0$

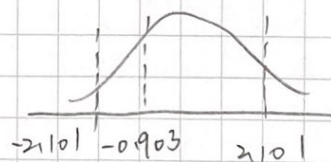


9.  $t_{0.025}(18) = 2.101, H_0: \mu_1 = \mu_2, H_1: \mu_1 \neq \mu_2$

$$SP \sqrt{\frac{1}{n_1} + \frac{1}{n_2}} = 5.693 \sqrt{\frac{1}{10} + \frac{1}{10}} = -0.903$$

$$SP = \sqrt{\frac{9 \times (4.5265)^2 + 9 \times (6.6575)^2}{18}} = 5.693$$

不拒絕  $H_0$



10.  $Z_{0.05} = 1.645, H_0: p \geq 0.4, H_1: p < 0.4$

$$Z = \frac{\hat{p} - p_0}{\sqrt{\frac{p_0(1-p_0)}{n}}} = \frac{0.45 - 0.4}{\sqrt{\frac{0.4 \times 0.6}{100}}} = 1.021$$

拒絕  $H_0$

