

企管二甲

A107270046

郭維維

No.

DATE

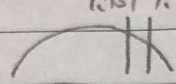
6. $\bar{x} = 4.65$ $s = 1.26$

$n = 40$ $\alpha = 0.05$

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

$z_{0.025} = 1.96$ $\frac{4.65 - 4.3}{\frac{1.26}{\sqrt{40}}} = 1.757$

接受 H_0

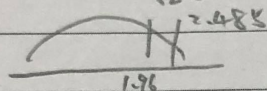


(2) $n = 80$ $\alpha = 0.05$

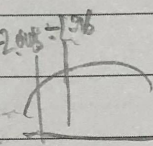
$H_0: \mu = 4.3$ $H_1: \mu \neq 4.3$

$z_{0.025} = 1.96$ $\frac{4.65 - 4.3}{\frac{1.26}{\sqrt{80}}} = 2.485$

拒絕 H_0



7. $\sigma_1 = 40$ $n_1 = 100$ $\bar{x} = 38.3$ $\sigma_2 = 30$ $n_2 = 80$ $\bar{y} = 40.1$



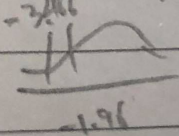
$\frac{(\bar{x} - \bar{y}) - 0}{\sqrt{\frac{\sigma_1^2}{n_1} + \frac{\sigma_2^2}{n_2}}} = \frac{38.3 - 40.1}{\sqrt{\frac{40^2}{100} + \frac{30^2}{80}}} = 2.045$ 拒絕 H_0

8 $H_0: \mu_1 = \mu_2$ $H_1: \mu_1 \neq \mu_2$ $z_{0.025} = 1.96$

$\frac{(\bar{x} - \bar{y}) - 0}{sp \sqrt{\frac{1}{n_1} + \frac{1}{n_2}}} = \frac{32 - 34}{3.430 \sqrt{\frac{1}{64} + \frac{1}{81}}} = -3.486$

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

拒絕 H_0

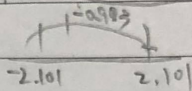


9. $t_{0.025}(18) = 2.101$

$H_0: \mu_1 = \mu_2$ $H_1: \mu_1 \neq \mu_2$

$\frac{\bar{x} - \bar{y} - 0}{sp \sqrt{\frac{1}{n_1} + \frac{1}{n_2}}} = \frac{84.9 - 87.6}{5.693 \sqrt{\frac{1}{20} + \frac{1}{20}}} = -0.903$

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

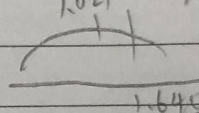


接受 H_0

10. $H_0: p \geq 0.4$ $H_1: p < 0.4$

$p = 0.45$ $z_{0.025} = 1.645$

$z = \frac{0.45 - 0.4}{\sqrt{0.4 \times 0.6}} = 1.021$



拒絕 H_0