No. A10727054 吳晨莉
Date : :

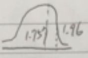
6. $\bar{x} = 4.56$ $s = 1.26$

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

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

$Z_{0.025} = 1.96$

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



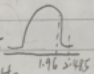
不拒絕

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

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

$Z_{0.025} = 1.96$

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

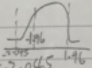


拒絕H_0

7. $H_0: M_1 = M_2$ $H_1: M_1 \neq M_2$

$Z_{0.025} = 1.96$

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



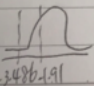
拒絕H_0

8. $H_0: M_1 = M_2$ $H_1: M_1 \neq M_2$

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

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

$= 3.430$



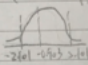
拒絕H_0.

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

$H_0: M_1 = M_2$ $H_1: M_1 \neq M_2$

$\frac{(\bar{x} - \bar{y}) - 0}{s_p\sqrt{\frac{1}{n_1} + \frac{1}{n_2}}} = \frac{82.6 - 84.9}{5.693\sqrt{\frac{1}{10} + \frac{1}{10}}} = -0.903$

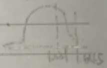
$s_p = \sqrt{\frac{9 \times (4.3263)^2 + 9 \times 6.6593^2}{18}} = 5.693$



不拒絕H_0

10. $Z_{0.05} = 1.645$

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



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Chevy culture