

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

(1) $n = 40$

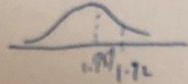
$\alpha = 0.05$

$H_0: \mu = 4.3$

$H_1: \mu \neq 4.3$

$z_{0.025} = 1.96$

$\frac{4.65 - 4.3}{\frac{1.26}{\sqrt{40}}} = 1.959$



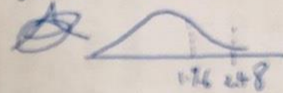
拒絕 H_0

(2) $n = 80$ $\alpha = 0.025$

$H_0: \mu = 4.3$

$H_1: \mu \neq 4.3$

$\frac{4.65 - 4.3}{\frac{1.26}{\sqrt{80}}} = 2.48$ 拒絕 H_0

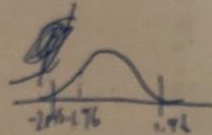


7. $H_0: \mu_1 = \mu_2$

$H_1: \mu_1 \neq \mu_2$

$z_{0.025} = 1.96$

$\frac{(2-8) - 0}{\sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}} = \frac{38.4 - 40.1}{\sqrt{\frac{4.0}{100} + \frac{2.0}{80}}} = 2.045$ 拒絕 H_0



8. $H_0: \mu_1 = \mu_2$

$H_1: \mu_1 \neq \mu_2$

$\frac{32 - 34}{3.430 \sqrt{\frac{1}{64} + \frac{1}{64}}} = -3.430$ 拒絕 H_0

$\sqrt{\frac{63 \times 3.2^2 + 80 \times 3.6^2}{143}} = 3.430$

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

$H_0: \mu_1 = \mu_2$

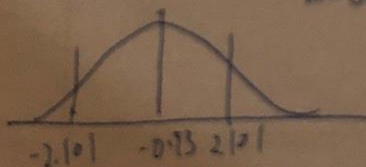
$H_1: \mu_1 \neq \mu_2$

$\frac{82.6 - 84.9}{5.693 \sqrt{\frac{1}{10} + \frac{1}{10}}} = 0.903$

$Sp = \sqrt{\frac{9(4.5625) + 9(6.3795)}{18}}$

$= 5.693$

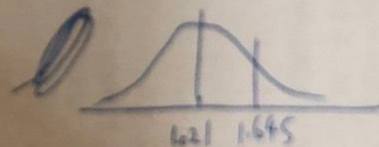
拒絕 H_0



10.

$z_{0.05} = 1.645$ $H_0: P \geq 0.04$ $H_1: P < 0.04$

$z = \frac{0.05 - 0.04}{\sqrt{\frac{0.04 \times 0.6}{100}}} = 1.021$



拒絕 H_0

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