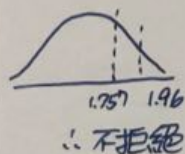


⑥ $\bar{x} = 4.65$ $s = 1.26$

(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

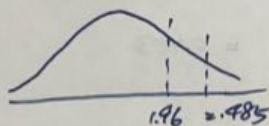


⑦ $n = 80$ $\alpha = 0.05$
 (2) $H_0 = \mu = 4.3$ $H_1 = \mu \neq 4.3$

$z_{0.025} = 1.96$

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

拒絕 H_0



⑧ $H_0 = \mu_1 = \mu_2$

$H_1 = \mu_1 \neq \mu_2$

$z_{0.025} = 1.96$

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

∴ 拒絕 H_0

