

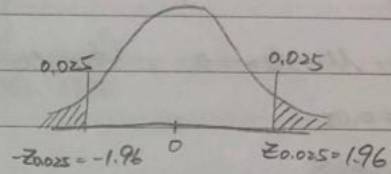
7-3

① $H_0: \mu = 30$ $H_1: \mu \neq 30$

② $\alpha = 0.05$

③ 棄卻域: $C = \{ |z| > z_{0.025} \} = \{ |z| > 1.96 \}$

④ $z = \frac{\bar{x} - \mu_0}{\frac{s}{\sqrt{n}}} = \frac{30.563 - 30}{\frac{2.354}{\sqrt{64}}} = 1.913$



\therefore 不棄卻 H_0

7.4

P值 = $P(z > 1.913)$

$\approx 2P(z > 1.91)$ \therefore 不棄卻 H_0

$= 2 \times 0.0281$

$= 0.0562 > \alpha$

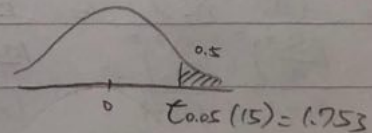
7-5

$n=16$ 小樣本 AND 標準差未知

① $H_0: \mu \leq 55$ $H_1: \mu > 55$

② $\alpha = 0.05$

③ 棄卻域 $C = \{ T > t_{0.05}(15) \} = \{ T > 1.753 \}$



P值 = $P(T > 1.308)$

④ $T = \frac{\bar{x} - \mu_0}{\frac{s}{\sqrt{n}}} = \frac{59.312 - 55}{\frac{13.189}{\sqrt{16}}} = 1.308$

\therefore P 介於 0.1 與 0.25 \therefore 不棄卻 H_0
 $P > 0.05$