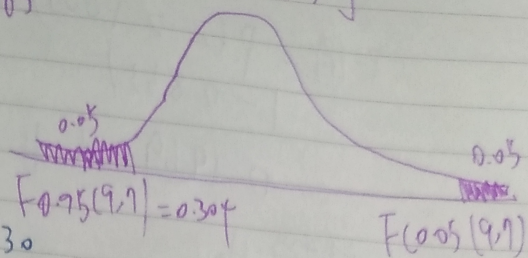
$= \{F < F_{1-\frac{\alpha}{2}}(n_1-1, n_2-1) \text{ or } F > F_{\frac{\alpha}{2}}(n_1-1, n_2-1)\}$

$= \{F < F_{0.95}(9,7) \text{ or } F > F_{0.05}(9,7)\}$

(4) $F = \frac{S_1^2}{S_2^2} = \frac{0.653^2}{0.627^2} = 1.085$

$\doteq 1.0846$

$= \{F < 0.304 \text{ or } F > 3.68\}$

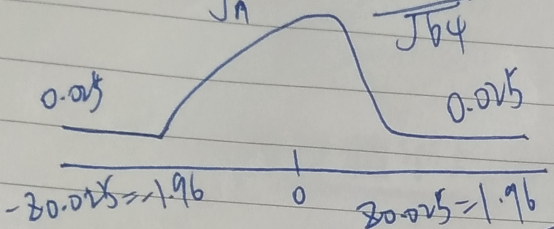


7.3 (1) $H_0: \mu = 30$, $H_1: \mu \neq 30$

(2) $\alpha = 0.05$

(3) 棄卻域 $C = \{|Z| > Z_{0.025}\} = \{|Z| > 1.96\}$

(4) $Z = \frac{\bar{X} - \mu_0}{\frac{S}{\sqrt{n}}} = \frac{30.563 - 30}{\frac{2.524}{\sqrt{64}}} = 1.913$



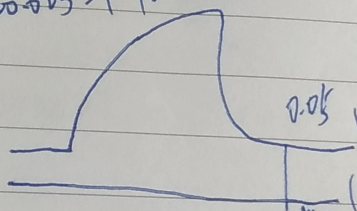
求例7.3的P-值

P-值 $= 2P(Z > 1.913)$

$\doteq 2P(Z > 1.91)$

$= 2 \times 0.028$

$= 0.056 > \alpha$



所以，我們棄卻虛無假設

7.5 已知樣本數 $n=16$ 為小樣本且母體平均成績的檢定為t檢定，其檢定過程：

(1) $H_0: \mu = 55$, $H_1: \mu > 55$。

(2) $\alpha = 0.05$。

(3) 棄卻域 $C = \{T > t_{0.05}(15)\}$

$= \{T > 1.753\}$

(4) $T = \frac{\bar{X} - \mu_0}{\frac{S}{\sqrt{n}}} = \frac{59.312 - 55}{\frac{13.184}{\sqrt{16}}}$

$= 1.308$

DATE / /

NO.