ex 7-11 =

(1) $H_0 = \frac{\sigma_1^2}{\sigma_2^2} = 1$, $H_1 = \frac{\sigma_1^2}{\sigma_2^2} \neq 1$

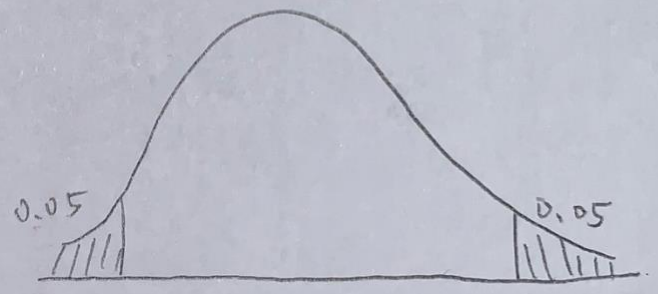
(2) $\alpha = 0.1$

(3) 棄却域 $C = \{F < F_{1-\frac{\alpha}{2}}(n_1-1, n_2-1)$ 或 $F > F_{\frac{\alpha}{2}}(n_1-1, n_2-1)\}$

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

$= \{F < 0.304$ 或 $F > 3.68\}$

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



$F_{0.95}(9,7) = 0.304$ $F_{0.05}(9,7) = 3.68$