W9作業

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例9.13 (1) $H_0 : P_1 - P_2 \leq 0$, $H_1 : P_1 - P_2 > 0$

(2) $\alpha = 0.05$

(3) 棄卻域 $C = \{ Z > Z_\alpha \} = \{ Z > 1.645 \}$

(4) 已知 $n_1 = 200$, $n_2 = 150$, $X = 108$, $Y = 78$

$\hat{p}_1 = 0.54$, $\hat{p}_2 = 0.52$

$\bar{p} = \dfrac{X+Y}{n_1 + n_2} = \dfrac{108+78}{200+150} = 0.531$

$Z = \dfrac{0.54 - 0.52}{\sqrt{0.531(1-0.531)\left(\frac{1}{200} + \frac{1}{150}\right)}} = 0.371$

∴ 並無多於女性