

B.7 7002 } 2 3 7

NO.

Date.

a. 常態分析 $E(Z_0 + Z_1) = 0 \Rightarrow E(Z + Z_1 - \mu)^2 = (1+1) = 2$

b. 卡方分析 $u_1 = Z^2 = \chi^2(df=1)$
 $u_2 = Z_1^2 + Z_2^2 = \chi^2(df=2)$

c.

d. 相互分析

e

f

(2) a $P(Z_0 + Z_1 \leq 1) = 0.6114$, (1-st, norm, st (1,0,2))

b $P(Z_0^2 \leq 1) = 0.5413$, (1-st, norm, st (1,0,1))

c $P(Z_1^2 + Z_2^2 \leq 1) = 0.6914$, (1-st, norm, st (1,0,2))

d $P(Z_0 \leq 1)$

3. (4) $MA = 6.5$, $\frac{\sigma_A^2}{n} = \frac{3^2}{25} = \frac{9}{25}$

$Z = \frac{\bar{X}_A - \mu_A}{\frac{\sigma_A}{\sqrt{n}}}$

$P(Z \leq -1.67) = 0.0476 \approx 4.7\%$