

ch4. 習題6

(1)  $X$  是隨機變數, 常態散

(2)  $P(X \geq 6) = 1 - F(6) = 1 - 0.623 = 0.377$

(3)  $P(X \leq 4) = 0.377$

ch6. 例 6.7

(1) 信賴區間 95%, 大樣本  $\rightarrow$  常態,  $\sigma$  已知

$1 - \alpha = 0.95 \quad \frac{\alpha}{2} = 0.025 \quad z_{0.025} = 1.96$

$\bar{x} = 16.33 \quad \sigma = 4.29 \quad n = 36$

$(16.33 - 1.96 \frac{4.29}{\sqrt{36}}, 16.33 + 1.96 \frac{4.29}{\sqrt{36}})$

$= (14.9280, 17.7314)$

$= (14.93, 17.73) \#$

(2) 信賴區間 90% 大樣本  $\rightarrow$  常態  $\sigma$  已知

$1 - \alpha = 0.9 \quad \frac{\alpha}{2} = 0.05 \quad z_{0.05} = 1.645$

$\bar{x} = 16.33 \quad \sigma = 4.29 \quad n = 36$

$(16.33 - 1.645 \frac{4.29}{\sqrt{36}}, 16.33 + 1.645 \frac{4.29}{\sqrt{36}})$

$= (15.153825, 17.506175)$

$\approx (15.15, 17.51) \#$

習題 P228 第一題

(1) 2.228#

(2) -1.86

(3) 21.03

(4) 0.95

(5) 3.94

(6) 3.69

(7) 0.238

(8) 0.05

企三甲 蔡昆晉  
A106270028