6-7 A107270050 陳亭君

(1) $\bar{x} \pm Z_{\frac{\alpha}{2}} \frac{s}{\sqrt{n}} = 16,33 \pm 1,96 \frac{4,29}{\sqrt{36}}$

$= 16,33 \pm 1.40$

$= (14.93, 17.73)$

(2) $\bar{x} \pm Z_{\frac{\alpha}{2}} \frac{s}{\sqrt{n}} = 16,33 \pm 1.645 \frac{4,29}{\sqrt{36}}$

$= 16.33 \pm 1.18$

$= (15,15, 17.51)$

6-19

$$n = \left(\frac{Z_{\frac{\alpha}{2}} \sigma}{e}\right)^2$$

$$= \left(\frac{1.96 \times 0,05}{0,01}\right)^2 = 96,04 \doteq 97$$