

$$(14) \chi^2_{\alpha}(15) = 7.26, \alpha = 0.95$$

$$= \frac{1}{4.21} = 0.238$$

$$(18) F_{\alpha}(6, 6) = 4.28,$$

P.228.

ex 2.

$$e = \frac{\sigma}{\sqrt{n}} = Z_{\frac{\alpha}{2}}$$

$$(1) \sigma = 3, e = 0.5, 1 - \alpha = 0.95$$

$$n = \left(\frac{3}{0.5}\right)^2 \times 1.96^2 = 138.3 \div 139$$

$$(2) \sigma = 0.2, e = 0.03, 1 - \alpha = 0.9$$

$$n = \left(\frac{0.2}{0.03}\right)^2 \times (1.645)^2 = 120.27 \div 121$$

$$(3) \sigma = 0.05, e = 0.02, 1 - \alpha = 0.98$$

$$n = \left(\frac{0.05}{0.02}\right)^2 \times (2.326)^2 = 33.8 \div 34$$

P.229.

ex 8.

p. 228.

X1.

$$(1) t_{0.025}(10) = 2.228$$

$$(2) t_{0.95}(8) = -1.86$$

$\Downarrow$   
 $1-0.05$

$$(3) \chi^2_{0.05}(12) = 21.026$$

$$(4) \chi^2_{\alpha}(15) = 7.26, \alpha = 0.95$$

p. 228.

ex 2.

$$(5) \chi^2_{0.95}(10) = 3.940$$

(6)

$$F_{0.05}(5, 8) = 3.69$$

$$(7) F_{0.95}(6, 7) = \frac{1}{F_{0.05}(7, 6)}$$

$$= \frac{1}{4.21} = 0.238$$

$$(8) F_{\alpha}(6, 6) = 4.28, \alpha = 0.05$$

p. 228.

ex 6.

1250  $\pm$  0.025.

$$1 - \alpha = 0.95, \alpha = 0.05$$

P. 228.

ex 6.

$$1250 \pm 0.025 \sqrt{\frac{140^2}{120}} = 1250 \pm 25.05$$

$$\Rightarrow (1224.95, 1275.05)$$

P. 228.

ex 7.