習題3 $n=10$ $\bar{x}=13.63$

$$S=\sqrt{\frac{\Sigma x_i^2-n\bar{x}^2}{n-1}}=\sqrt{\frac{-10\cdot 13.63^2}{9}}=6.05$$

$\Sigma x_i^2 = 7.84+17.64+524.41+278.89+$

$1-\alpha=0.98$ $\frac{\alpha}{2}=0.01$

$\alpha=0.02$

$$\bar{x}\pm t_{\frac{\alpha}{2}}(n-1)\frac{s}{\sqrt{n}}=13.63\pm t_{0.01}(9)\frac{6.05}{\sqrt{10}}$$

$=13.63\pm 2.821\times 1.91$

$=13.63\pm 5.39$ $(8.24, 19.02)$