

例 6.7

$$\begin{aligned}
 1) \quad 1 - \alpha &= 0.95 & \frac{\alpha}{2} &= 0.025 & Z_{\frac{\alpha}{2}} &= Z_{0.025} = 1.96 \\
 \bar{x} \pm Z_{\frac{\alpha}{2}} \frac{s}{\sqrt{n}} &= 16.33 \pm 1.96 \frac{4.29}{\sqrt{36}} \\
 &= 16.33 \pm 1.4 \\
 &= (14.93, 17.73) \#
 \end{aligned}$$

$$\begin{aligned}
 2) \quad 1 - \alpha &= 0.9 & \frac{\alpha}{2} &= 0.05 & Z_{\frac{\alpha}{2}} &= Z_{0.05} = 1.645 \\
 \bar{x} \pm Z_{\frac{\alpha}{2}} \frac{s}{\sqrt{n}} &= 16.33 \pm 1.645 \frac{4.29}{\sqrt{36}} \\
 &= 16.33 \pm 1.18 \\
 &= (15.15, 17.51) \#
 \end{aligned}$$