3.

$n=10$, $\bar{x}=13.63$, $s=6.05$.

$n-1=9$, $1-\alpha=0.98$, $\frac{\alpha}{2}=0.01$

$t_{0.01}(9)=2.821$

$\therefore$ μ 之 98% 信賴區間為

$$\bar{x} \pm t_{\frac{\alpha}{2}}(n-1)\frac{s}{\sqrt{n}}$$

$$= 13.63 \pm t_{0.01}(9)\frac{6.05}{\sqrt{10}}$$

$$= 13.63 \pm 2.821 \times 1.91$$

$$= 13.63 \pm 5.39 \Rightarrow \underline{(8.24, 19.02)}\ \#$$