$$(21.15 \times 3.44, \ 21.15 \times 0.29)$$

$$= (0.06, \ 0.66)$$

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3. $n=10$, $\bar{x}=13.63$, $s=6.05$, $n-1=9$

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

$t_{0.01}(9) = 2.821$

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

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

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