Q3 (Ex 12 pg 399)

STAT3093, ASS#4
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$CI = \bar{X} \pm z_{\alpha/2} \frac{s}{\sqrt{n}}$, $\bar{X} = 0.81$ $\alpha = 0.01 \Rightarrow z_{\alpha/2} = -2.58$
$s = 0.34$ $n = 110$

$$0.81 - \frac{2.58\,(0.34)}{\sqrt{110}} = 0.61$$

$$0.81 + \frac{2.58\,(0.34)}{\sqrt{110}} = 1.01$$

The 99% CI (two-sided) is

$$(0.61,\ 1.01)$$