B06x1129

3. (a) $\mu = 65$

$\sigma = 3$

$\bar{x} = 64$

$n = 25$

st.norm.cdf(x=x, loc=μ, scale=$\sigma/n^{**}0.5$)

$\Rightarrow 0.0478$

(b) $\mu = 65$

$\sigma = 3$

$n = 25$

xbar = 64

st.norm.cdf(x=xbar, loc=μ, scale=$\sigma/n^{**}0.5$)

$\Rightarrow 0.0478$

(c) $P(\bar{X}_A \le X) = 0.05 \Rightarrow z \fallingdotseq -1.645$

$\frac{\bar{X}_A - X}{3/\sqrt{25}} = -1.645$

$X = 63.2583$

(d) $X_1 = 63.2583$

$\frac{\bar{X}_A - X_2}{3/\sqrt{25}} = 1.645$

$X_2 = 67.7417$

$\Rightarrow (X_1, X_2) = (63.2583, 67.7417)$

Taken with Zenfone

2020.06.12