2) Since
$$\mu$$
 can be $(0,+10)$ we think it is two-tails

Ho: $\mu = |00\rangle \gamma s$ HA: $\mu \neq |00\rangle$

ii) $TS = \frac{\overline{X} - M}{G \sqrt{m}} \sim N(0,1) = \frac{\overline{X} - |00\rangle}{|14/\sqrt{m}}$

RR: $P(|2| > 24/2) = \frac{4}{5}$

$$\frac{x-400}{20hs^{2}} = \frac{82-100}{14/130} = -7.042$$

CONclusion: |Zoks > |Zoxi | >> Zobe ERR

Q2:

i) H0: $\mu=325$ HA: $\mu\neq325$ ii) Since it is satisfied the normal distribution we say that TS is $\frac{x-M}{\sigma/5N} \sim N(1.0)$ iii) RR: $P(|\pm_{0}|x|, |\pm_{0}|x|) = 0.025 \Rightarrow 2\sigma = -1.96$ $206 = \frac{304 \cdot 1 - 325}{10.151/Fro} = -1.42$

Conclusion: |Zobr | vs |Zobr | > 1.42<1.96

zour & RR. Hence we say it is we do not reject HO, the µ is 325

P-value: P(TS|>101|H0)=0.15