When the pall read Maria 150 × coborganoeth (us 4 render)

Παιπα 160

Carra 130

Daima 190 ν

5 usundobament empocurus poet y 2 cuys. usodos

N M 
$$\rightarrow$$
  $\mu_1 = 170$ 

L)  $C D \rightarrow \mu_2 = 185$ 

3) MΠ  $\rightarrow$   $\mu_3 = 155$ 
 $M = \frac{1}{4}(150 + 160 + 130 + 130) = 170$ 

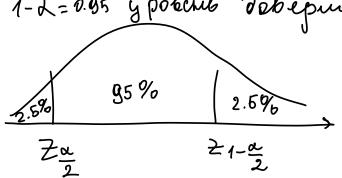
Bostopna y 2 render ( $C^{\frac{1}{4}} = \frac{4!}{2!(4-2)!} = \frac{5 \cdot 4}{2} = 6$ )

Bostopna  $\mu_1$  cuyrarinad becureina

MΠ  $\frac{15 \cdot 5}{170}$ 

MC  $\frac{170}{170}$ 
 $\frac{1}{170}$ 
 $\frac{1}{170}$ 

$$E[\bar{X}] = E[1_{n}(x_{1}+...+x_{n})] = \frac{1}{n}(\underbrace{M+...+M}) = \frac{1}$$



$$MD$$
.  $\hat{y}_{1} = 170$ 

$$\hat{\nabla}_{1} = \sqrt{\frac{1}{2-1} \left( \left( 150-170 \right)^{2} + \left( 190-170 \right)^{2} \right)} \approx 28$$

170 ± 3-
$$\frac{28}{\sqrt{2}}$$
 -  $0$  obep untelle moré unseplan  $B$  (  $110 \le \mu \le 230$ )  $\approx 99.9\%$ 

## unonegor:

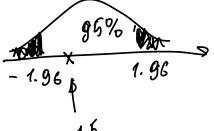
Ho: 
$$JU = 200$$
  
HA:  $JU \neq 200$   
110 200 250

unorga danveren ne noorboperent

$$\hat{M} = \overline{X} \sim \mathcal{N} \left( 200, \frac{\hat{\sigma}^2}{n} \right)$$

$$2 = \frac{M-100}{G/VN} \sim N(0, 1)$$

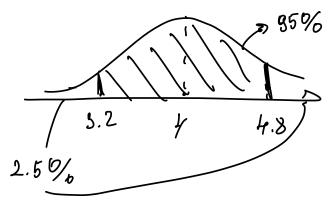
$$2069 = \frac{170 - 200}{28/\Gamma_2} \approx -1.5$$



-46 process unosegy

Merod memerinal

2 - unsexcubrocos



$$X_1, ..., X_{100} \sim iid$$
 Poiss ( $\lambda_2$ )  
 $Y_1, ..., Y_{100} \sim iid$  Poiss ( $\lambda_3$ )  
 $\overline{X} = 4$ ,  $\overline{Y} = 5$ 

$$\Delta = \overline{Y} - \overline{X} = \lambda_{Y} - \lambda_{X} \sim N(\lambda_{Y} - \lambda_{X}, \frac{\lambda_{Y}}{100} + \frac{\lambda_{X}}{100})$$

$$\overline{Y} \sim N(\lambda_{Y}, \frac{\lambda_{Y}}{100})$$

$$\overline{X} \sim N(\lambda_{X}, \frac{\lambda_{X}}{100})$$

