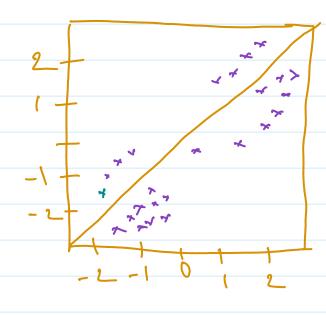
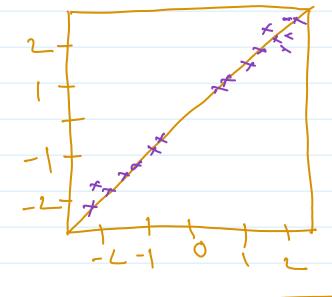
Quartile and Quantile plot



- It is non-aucsian



_Q-Q. It is normal dist.

& Spearman Rank correlation

Mean
$$\chi = 2.5$$

$$(x-\overline{x})$$
 $(4-2.5)$
 $(4-2.5)$
 $(4-2.5)$
 $(4-2.5)$
 $(2-2.5)$
 $(3-2.5)$
 $(3-2.5)$
 $(3-2.5)$
 $(1-2.5)$
 $(1-2.5)$

$$S.D. \sigma_{X} = \frac{(1.5)^{2} + (0.5)^{2} + (-1.5)^{2} + (-0.5)^{2}}{4-1}$$

$$= \frac{1.66}{1.288}$$

$$5.9. \quad \sigma_{y} = \sqrt{(1.5)^{2} + (-0.5)^{2} + (-0.5)^{2} + (-0.5)^{2} + (-0.5)^{2}}$$

$$= \sqrt{1.66} = 1.288$$

$$\begin{cases}
P(xm) = \frac{(x-x)(x-y)}{n-1} \\
= (1.5) \times (1.5) + (0.5) \times (-0.5) + (-0.5)(6.5) + (-0.5)(6.5)
\end{cases}$$

= 2.25 - 0.25 - 6.25 + 2.25

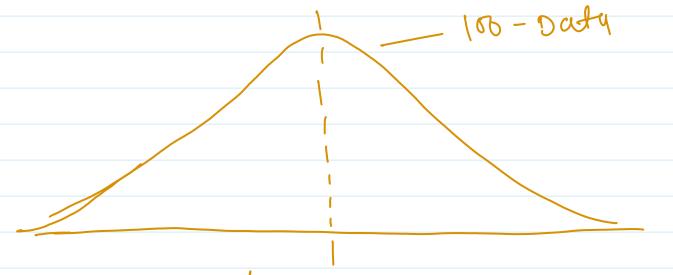
$$=>$$
 $\frac{4}{3}$ =: 1.33

$$\gamma_{S} = \frac{1.33}{1.28 \times 1.28}$$

$$= 0.81 = 81 /$$

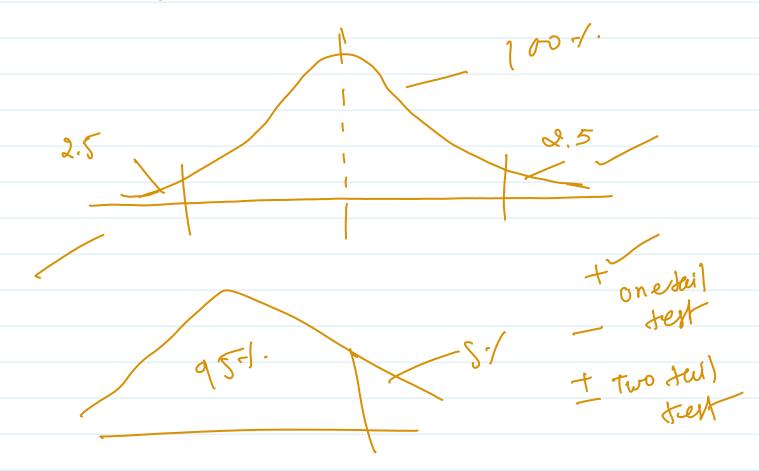
A Hypothesis testing

A = crical value sognificant value

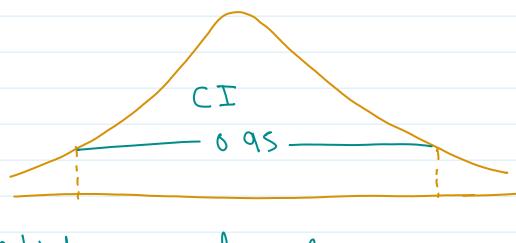


Domeun expert: - terterunce ± 0.5 mm

=> X = 5-1.



it we don't have domain expert so we take a value as 5%



A Contidence interval

- D Sample size ≥ 30 population SD. $\alpha = given$.
- Sample size < 30 Sumple SD S is given t-test
- 3 Contregorate dates chi-square test