ANOVA - Analysis Of Variance

Ocat 15. Numerical 5 > n>30 - z-test

(ex-Genders Vs. Income) & T-test

(a) cat. Vs. Cat

2) cat. Vs. Cat (ex-Gender Vs. Product) -> Chi²

(3) cost vs. Cost vs. cost -> ANOVA

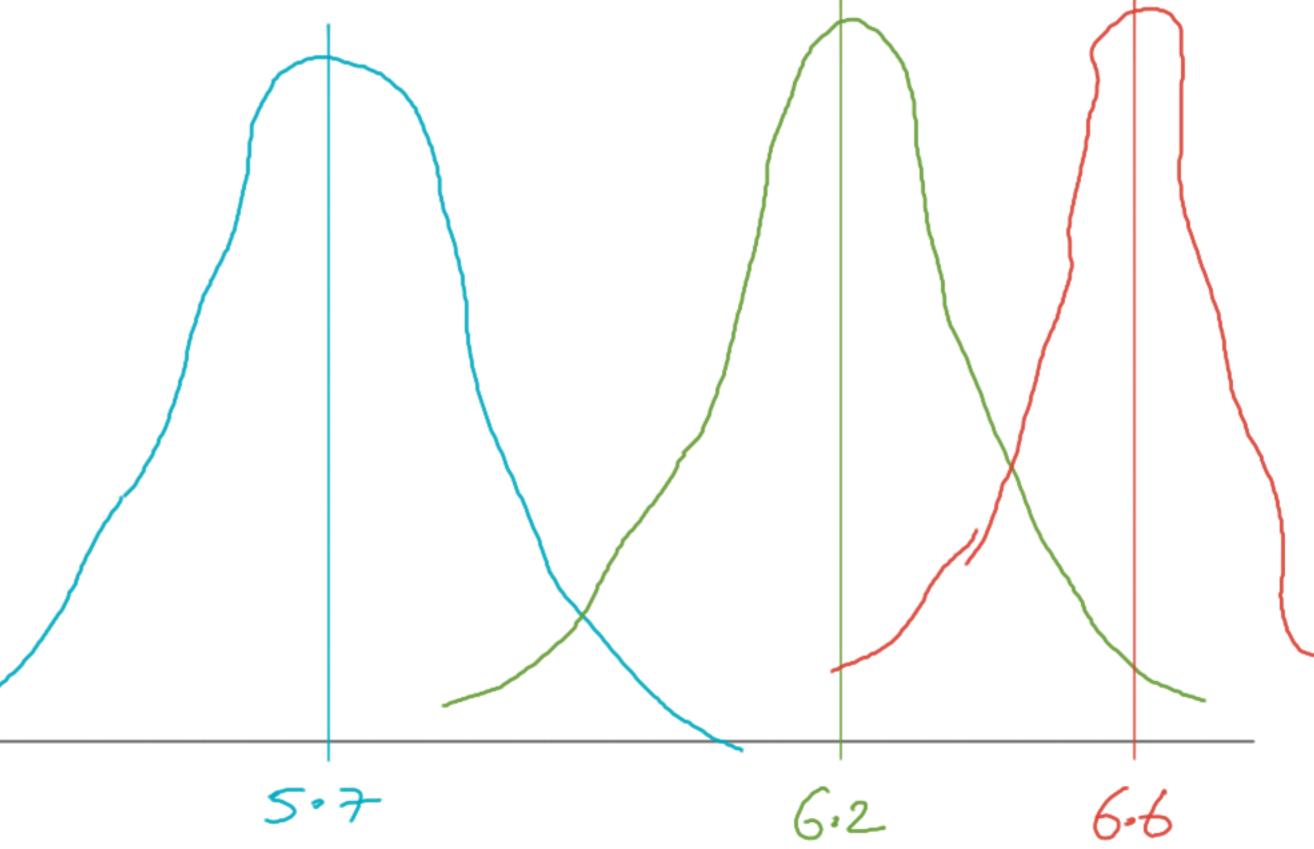
Cex-Gender vs. Rooduct vs. City)

When we have more than 2 columns, we use ANOVA

ANOVA (Deep dive) -> Baskethall players USA-6.6 ± 2.5 India - 6.2 ± 2.5 Indonesia - 507 + 2.5 anestion: And mean

height of Basket Ball plagers associated with garayps (of country)? Ho: Height an groups and not associated.

Ita: They are associated.



- If we mix-up all of them and then randomly make 3 groups - g,, g, &1 g, mean (2,) Case-2) ~ mean(g2) ~ mean (g3) Standand p deviation

F = Variance between the groups

case-1: variance between the groups is high & variance within the groups is low. .. F-notio is high i-p-value is lower ... Reject Ho

Case-2: is sucresse. Frail to reject to

A Assumptions of ANOVA

- (1) Data must be Gaussian
 Laplot the histogram
 Latest-1: Q-Q Plot
 Latest-2: Shapino
- 2) Rows must be independent of each other
- 3) Variance within the groups must be equal.

If these assumptions are not followed then we use Knuskal Test

Logic behind Q-Q plot: