Extended or more son & Assignment of a country of the son of the s

Qual How are you going to Jigore out the average height of all the trees in Konnataka?

Population S.D

Counidoring given == tao, 20,

 $\frac{n=30}{\bar{x}=100}$

CI=951

(I = x + Z42 =

In f 7 - 20

² J₃₀

was inst on the education of spearant ories thereon

Z0:025 = 1-0:025

the OETest Sinit theren. E

= 0,975 - check in 2 table

= 100 ± 1.96 × 20

130

Lower Limit = 100 - 1.96 x 20

= 92.84

Higher Unit = 100 + 1.96 × 20

= 107.156

ll will range from 92.84 to 107.156 (95.1. confidence) What in Hypotherin testing & how does it week? Hypotherin in an educated guen about something in the world. Hypothesih testing in a way to test the vesult of a sooney or experiment to see trow if you have meaningfull results or not. Steps Involved 1) State Null & Alternate Hypothesis 2) Calculate Decision Rule (3) Perform / Figure out test younced to perform (4) State wheather to support or reject Hypothesis Explain difference b/w Alpha & Beta Essos. Which industy We commit type I (Alpha) error if we reject the rull
Hypothesis when it is true. This is a fabre Pasitive, like
a fire aloun that rings when there's no fire. A type 2 everar (Beta) happen when we fail to reject the null when it is not true. This a Jake negative like a fix alarm that fails to sound when there is afine. In many care Type I is worse than type 2 everos. It all depends on the situation.



lung what is the significance of the Prvalue? An O P-value is a statistical measurement und to validate a Hypothesis againsed observed data E) Pralu measure the probability of obtaining the observed results, anoming that the null repostess to true. (3) Lanes Pralu greates the Statistical significance of the observed 9 Pralue can serve as an alternative to or in addition to preselected confidence lines for Hypothesia testing What in the Probability distribution Function and how does it work? Appropriate of definition of value, as opposed to taking ordery one value. PDF define the probability function representing the density of a continue random variable lying blue a specific range of value For Continous Random Variable $P(\alpha \le x \le b) = \int_{a}^{b} f(x) dx$

