

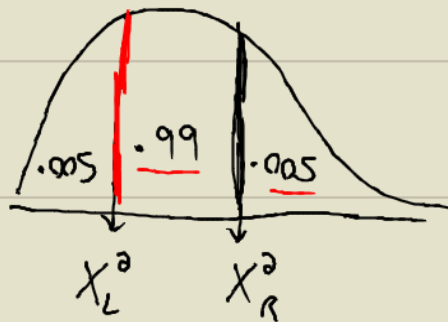
$$4. \quad n = 25$$

$$DF = n - 1 \\ = 25 - 1$$

$$DF = 24$$

$$S = 10.1$$

99% C.I. For VAR.



$$9.886$$

$$45.559$$

$$LB = \frac{(n-1)S^2}{X_R^2} = \frac{(25-1)10.1^2}{45.559} = 53.74$$

$$UB = \frac{(n-1)S^2}{X_L^2} = \frac{(25-1)10.1^2}{9.886} = 247.65$$

(53.74, 247.65)