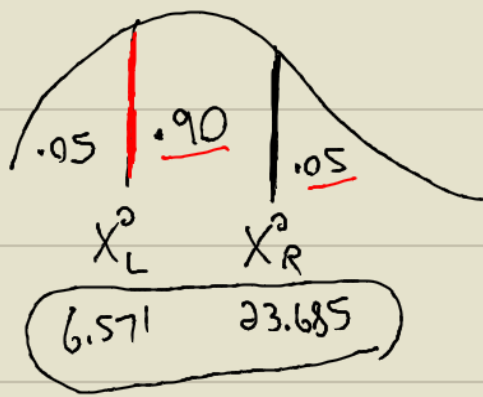
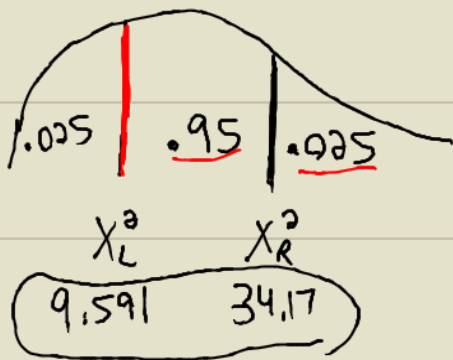


1. 90% CONFIDENCE $n=15$



$$DF = n - 1$$
$$DF = 15 - 1$$
$$DF = 14$$

2. 95% CONFIDENCE $n=21$

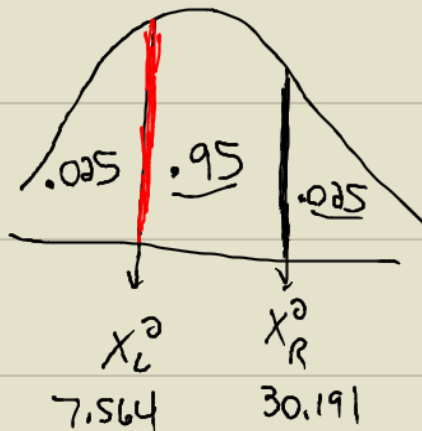


$$DF = n - 1$$
$$DF = 21 - 1$$
$$DF = 20$$

3. $n=18$

$S=2.5$

95% C.I. FOR STD. DEV.



$$DF = n - 1$$
$$DF = 18 - 1$$
$$DF = 17$$

$$LB = \sqrt{\frac{(n-1)S^2}{X_R^2}} = \sqrt{\frac{(18-1)2.5^2}{30.191}} = 1.88$$

$$UB = \sqrt{\frac{(n-1)S^2}{X_L^2}} = \sqrt{\frac{(18-1)2.5^2}{7.564}} = 3.75$$

(1.88, 3.75)