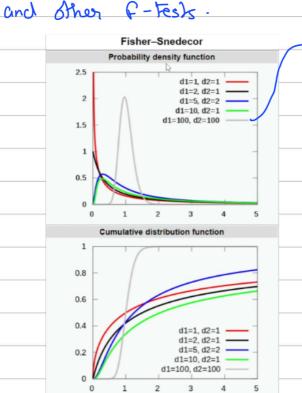
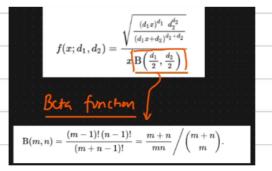
F-distribution on f-ratio, also known as Sendecon's f-distribution on f-ratio, also known as Sendecon's f-distribution on the fisher-Sendecon distribution (after Ronald fisher and Greenge W. Sendecon) is a continous probability distribution that arises frequently as the null distribution of a Statistic, most notably in the analysis of variance (ANOVA)



becomes on stank to look like nonmal



\* Parameter used: d1, d2 >0 : degree of freedom

Supports: 
$$x \in (0, +\infty)$$

$$\Rightarrow Pdf = \int (x, d_1, d_2) = \frac{(d_1 x)^{d_1} d_2^{d_2}}{(d_1 x + d_2)^{d_1} + d_2}$$

$$\Rightarrow \frac{(d_1 x)^{d_1} d_2^{d_2}}{(d_1 x + d_2)^{d_1} + d_2}$$

$$\Rightarrow \frac{(d_1 x)^{d_1} d_2^{d_2}}{(d_1 x + d_2)^{d_1} + d_2}$$

& F-distribution with d, and dr degree of freedom is the distribution of Random variable such that:

vaniables with thi square distribution

# Chi sq distribution is a Right strewed distribution

F-test [Varionce Ratio Test]:			
By The following data shows no. of bulbs produced daily Jon			
Some days by 2 wonkers A and 13			
0	A	В	Can we consider based on the date
<u> </u>	40	<b>૩</b> વ	that wonker 13 is more sizable
y	30	38	and efficient
7.	38	41	(d = 0.05)
,	41	33	
S	38	32	
	35	3લ	
\(\sigma_{\sigma}\)		40	
		34	
Soly 314 Ho = 5,2 = 6,2			
S24 H, = C, = C2			
Szy Calculation of varience			
$\frac{3^2 - \sum (x_i - \overline{x})^2 - \sum (x_i - \overline{x})^2}{n - 1}$			
n-I			
Wonker A			wonher B
$\chi_{\iota}  \overline{\chi}_{\iota}  (\chi_{\iota} - \overline{\chi}_{\iota})^{\prime}$			$(\chi_1-\chi_2)$ $\chi_2$ $\chi_3$ $(\chi_2-\chi_3)$
<u>५० ३२ ९ ३२ ५</u>			
30 " 44 38 " 1			٧٩ 38 " ١
			1 41 " 16
<u>" 16 33 " 16 </u>			16 33 " 16
38 " 1 32 " 25			
35 1 4 39 1			
<del>\overline{\chi_1} = 37</del> \(\overline{\chi_2} = 80\) \(\overline{\chi_1} \overline{\chi_2} \c			
x = 37			
S <sub>1</sub> = 80 = 80 = 13			
			S2 = 84 = 12

