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Onestion 2	
$\frac{CxPonnsin1}{dt} = x \Rightarrow x = e^{-t}$	
PDF= 1x = -e-t	
COF = \ POF(t)16 = e^-t COF(t) = 2 where 260,1	
nuw t = cof-1(g)	
for an exponential COF; e-t= 9	
$t = -l_{0}(2)$	
Grentzian!	
$PDF = \frac{1}{1+x^2}$ $CDF = \left(\frac{1}{1+x^2}\right) dx = arctan(x) = 9$	
$\therefore x = \tan(q) \qquad 7 = \frac{1}{1+1} \qquad \sqrt{\frac{1}{y}} - 1 = x$	
gaussian', pof = e = = = = = = = = = = = = = = = = =	
$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$	
$\therefore X = er = -1 \left(2 \sqrt{2} \right) \sqrt{2}$	
(57)	
power law:	
$\begin{array}{c} \text{POF} \sim t^{-d} \text{ is one Index } \text{CI,2,} \\ \text{COF} = \begin{pmatrix} \tau \\ t^{-d} \end{pmatrix} \begin{pmatrix} \tau \\ -d $	
CDF = \ t dt 1-2	
1-t-a 1-t-a 1-t-a	1/-a
CDF = 1-2 = L-T1-a = 2 -> T = (1-2) 1-2 = 2	7

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Question 3						
use r = Sed o <u< td=""><td></td><td></td><td></td><td>n <u>La</u></td><td>1/2 - 1</td><td></td></u<>				n <u>La</u>	1/2 - 1	
Set 0 =0	1 < 1 5 (0)	, F 0	12 42	JYLA JP	76) - 1	
for the ex	ponertial a	list ribition	n PCx)= a	e-«x		
u	de-ar-	-) u2 =	de-2r			
		h (12)	dr	= - ~ 1	1	
		V=-4	h(42)			
,	0 = V	e - 4 h	(u ²)			
	Le-dr = 1					
	Le I		2 = h	7)		
			V= - 1 1	(之)		
The gener	utr iv ~	al lo effic	icn}			
V						