

4) fx(x)=1 e-x/(u(x) olan	rostlantisal degis	stenine 15 = x	2 danisono	y Julandi gind	a ede edilec	ek rostlan-
tisal degisterin poff's	fy(y)=?		pt	1		
$y=x^2 \Rightarrow dy = 2xj$	x = 7 T	f_(y) = 2	f x (x)	- fx((3) + fx(- √ 5)
d x				₹ <i>J</i> Ÿ	/3' 2	\\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
\sqrt{\sq}}\sqrt{\sq}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	+√3'					(
$= \frac{1/2}{2\sqrt{5}} = \frac{1}{2} \frac{1}{2} = \frac{1}{2} $						
5) $f_x(x) = \frac{1}{2} e^{\frac{x}{2}} u(x)$	1	la = 7ch ent	-ctolone de	retion Leson	laun12	A L
			87 1414	S -	1. 1. 1. 1. 1.	
$E[x] = \int_{\infty} x f^*(x) qx$	$= \left(\begin{array}{c} x \\ x \\ \end{array} \right) \left(\begin{array}{c} x \\ z \\ \end{array} \right) \left(\begin{array}{c} x \\ z \\ \end{array} \right)$	2 Jye	ly = 2			
-60	9			, J	4	
x = y => dx = dy	Je-319	dx=e d.) => V= -e			
			05		0 00	
Jy e dy = -y e + Se	- dy = -ye	= - e (j+1) ∫ 5 €	راد دع ادع	=	
	2 1 2 1	7 3 11				
6) Bir Gaussian rostlentis	al degiskenine il	iskin ortalon	a deger O) ve Standor	+ sapa 1	dir.
P(1×+11<2) olasiliqui						
$P(1\times+11<2) = P(-2 < \times$				Pr(x>-3) - Pr	(x>1) tors	il, alan verir
074			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
O(-3-0) - O(1-0)	2) = Q(-3) - Q(1) = 1-0	2(3)-0(1			
۵۶	3 1 1	3, 31, 4		1 -	1 200000	1 olan Y
7) Ortalanası I varyans						
Gaussian rastlantisal da	egiskeni birbirinde	$\frac{1}{(x-1)^2}$	$\int_{-(y+1)^2}^{2}$	L 90+ +x,	$y(x,y) = (y+1)^2$	
$f_{\times \cup}(\times, y) = f_{\times}(x) \cdot f$	$J(y) = \frac{1}{\sqrt{2\pi \cdot 2}} e$	2.2 1 Vaccon, \$2\pi.1	e 2:	x2/2	e 2	
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	E	C x ²	-]	ر <u>-</u> د-	/ ×	2.	16	ال	x	"	3																							
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	£,	(1 M =	-1	(x)	=	12	T C	1,5	. 6	-{X 2 2	.0,:	<u>) </u>				f,	(1~	=0	(×)	1	√2	ا بحر	2 4	,	ر	2.c	0) ²	,						
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