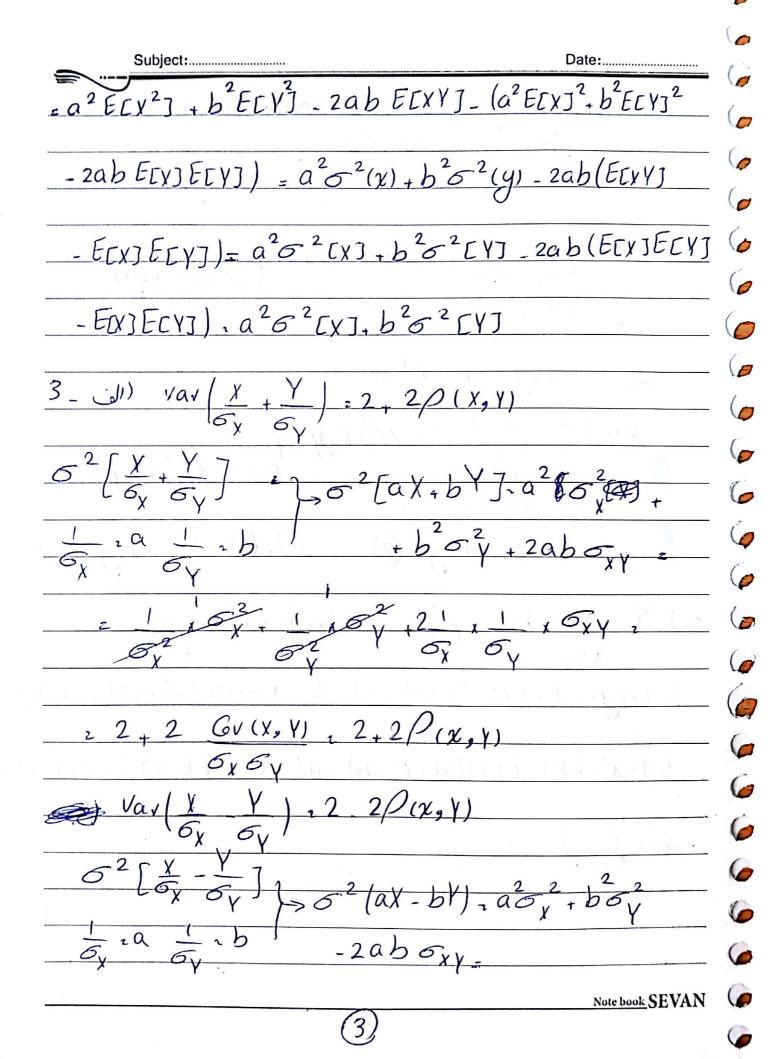
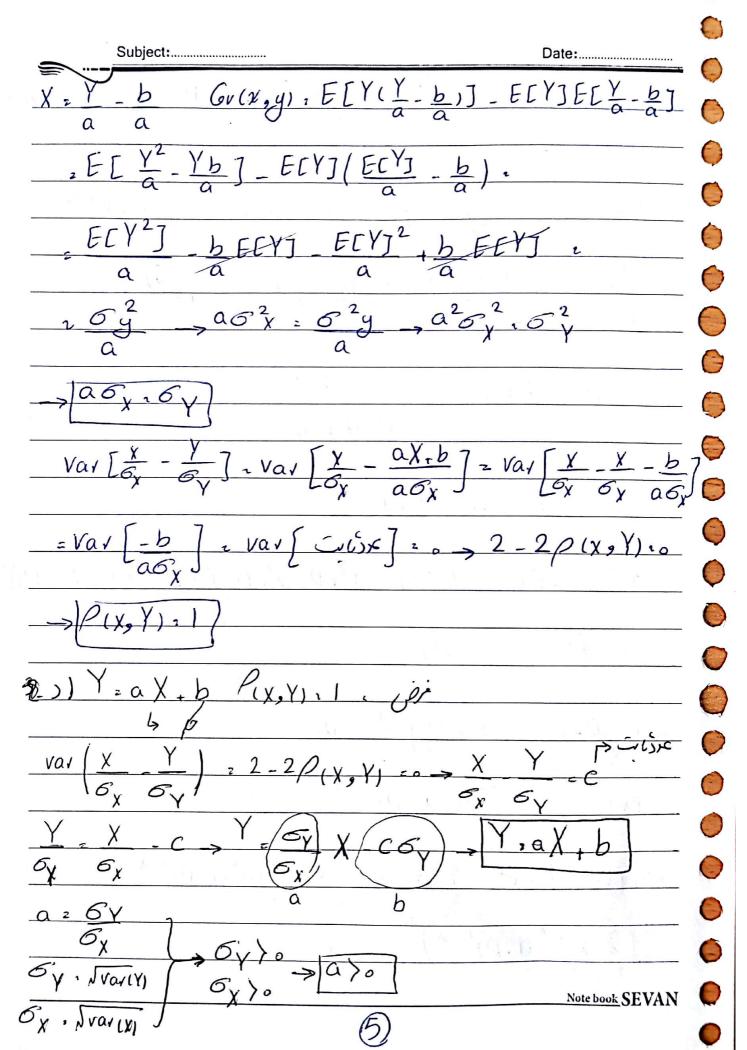


Subject:.... 21 52[(ax+bY+c)2] = Var [(ax+bY+c)2]. E[(aX+bY+c)2] E[aX+bY+c] = E[a2X2b2Y2c2+2abXY+2acX+2bcY]-E[aX+bY+c]= = a2 E[x2]+b2E[Y2], c2+2abE[XY]+2acE[x]+2bcE[Y] (aE[X]+bE[Y]+c) = a2E[x2]+b2E[Y2]+g+20bE[XY] +2acE[X], 2beE[Y] - (a2 E[X]2+b2E[Y]2+c2+2abE[Y]E[Y] +2acE[x], 2bcE[Y]); a2(E[x2]-E[x]2), b2(E[Y2]-E[x] + 2ab (E[XY]-E[X]E[Y]) = a252(X)+b252(y) +2ab = (xy) $3) 6^{2} = a^{2} 6^{2} + b^{2} 6^{2}$ Var [ax-bY] . E [(ax-bY)2] - Frax-bY] Ε[a²X², b²Y² - 2abXY] - (aΕ[Y] - bΕ[Y])²,

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	Subject: Date:
0	= 1 6 x 1 6 x - 201 x 1 x 5 x (6 x (x, y) 2
	θ_{χ} θ_{χ} 1 θ_{χ} θ_{χ}
	2-2P(x,y)
C	1) Vay [X + Y] 2 2 2 2 (x, Y) 9
0) Vay [x + y] = 2+2p(x, y) = 2+2p(x, y) >0
	Vai [X + V]>0
	-> P(x,y)>-1 0
0	
	Var [2 - 2 P(x,y) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Ò	$\frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}$
	-> 1) P(x,y) 2 0,2. 1) P(x,y) }-1
()	
	E) Y 20X + B 1 Gg P(x,y). 1 , 5
	aso Engery Ervay LIT Erva Francis
	Gv (x,y). Ecxy] _Ecx] Ecx] Ecx] Ecx] Ecx] Ecx] Ecx] Ecx]
	= E[ax2+bx]-E[x](aE[x]+b) = aE[x2]+bE[x]-aE[x]2bt
0	2 C [04 + 0] - C(X) (ac(X)+ b) 2 ac(X) + becx = 2 cx 3 = 0
0	2 6-2
C	205,2 X
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Subject:.... P(x>y) = 0.7 P(y>z) 20.7 P(z>x) 20.7: (8) P(AnB), P(xA)y ny)z), P(x)z)...7xo.720.49 P(x>z) 20. 49 P(é), P(c)>1-> (Bi f(k:p) = sp if k=1 E[X]= 11P, Ox(1-P)=P Va, [x], E[x2] E[x7 112xp, 02 (1-P) =- (1xp+0(1-P))2 .P.P2 , P(1-P) \rightarrow) $P + (k, n, p) = {n \choose k} p^k (1-p)^{n-k}$ $E[x] = \sum_{x=0}^{n} x \binom{n}{x} p^{x} (1-p)^{n-x}$ Var(x), $E[x^2]$, $E[x]^2$, $\sum x^2 \binom{n}{x} p^x \binom{1-p}{n-x}$ (Expx (1-P) n-x) = npg SEVAN Note book

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