مام ونام خازادکی ومرادلیوان عتی سری ممام لادانشوى ١٤ماماما٨ حواب سوال الم  $f_{y}(y) = \int_{C} f_{x,y}(x,y) dx = \int_{C} \frac{\xi_{x+y}}{\xi_{y}} dx = \frac{\chi_{x+y}}{\xi_{y}} \int_{C} \frac{\xi_{x+y}}{\xi_{y}} dx$  $f_{Y|A}(Y) = f(Y=Y) / (Y=Y)$   $f_{Y|A}(Y) = f(Y=Y) / (Y=Y)$   $f_{Y|A}(Y) = \frac{f_{Y}(Y)}{f(A)} = \frac{Y}{Y} + \frac{Y}{Z}Y / (Y=Y)$   $f_{Y|A}(X) = \frac{f(X=X_{2}Y \leq X)}{f(A)} = \frac{Y}{Y} + \frac{Y}{Z}Y / (Y=Y) / (Y=Y)$  $\int f_{X|A}(x) = \int_{0}^{\frac{1}{2}} \frac{f_{X|A}(x)}{f_{X|A}(x)} = \int_{0}$ (les sue mol)

كردانشوني واطهاه اها

ام و مام ا زادگی مرادلیومان

الاسمواب سوالية:

 $f_{x}, y(x, y) = \frac{\xi x + \xi y}{\alpha} = \frac{y \times + \xi y}{\alpha} = \frac{y \times + \xi y}{\alpha}$ 

 $f_{x1y}(x1y) = \frac{f_{(x=x,y'=y)}}{f_{y}(y=y)} = \frac{f_{xy}(x,y)}{f_{y}(y)} = \frac{f_{xy}(x,y)}{f_{y}(y)} = \frac{f_{xx+y}}{f_{y}(y)} =$ 

 $f_{X}(X) = \frac{f_{XY}(X = X_{9}Y = Y)}{f_{X}(X = X)} = \frac{f_{XY}(X_{9}Y)}{f_{X}(X)} = \frac{E_{X} + Y}{E_{X} + Y} = \frac{E_{X} + Y}{E_{X} + Y}$   $f_{X}(X) = \int_{C} f_{XY}(X_{9}Y) dY = \int_{C} \frac{E_{X} + Y}{E_{X}} dY = \frac{E_{X} + Y}{E_{X} + Y} dY = \frac{E_{X} + Y}{E$ 

 $\int_{C} \frac{1}{\sqrt{2}} dy = \left| \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \right|_{C} = \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}}$   $= \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$ 

حال ما احتال آن را می انوامیم که هر ار مونق سونز وجع استانگردی ما زیر هاریاش.

 $f(x_{2}y \mid x+y \leq w_{0}) = \frac{P(x=x_{2}y=y')}{P(x+y \leq w_{0})} = \frac{P(x=x) \cdot P(y=y)}{P(x+y \leq w_{0})}$ 

نام و نام ما مزادکی ، همرادلیونان Mololdol & cyshill ادام حواب سوال کے خ (x) / (x) = (-> = 0/4 V14) (x < a | join 1 y=11) [(x < a join 1 y=11) [(x < a join 1 y=11)] [(x < a) - [ > = \((x < \alpha) = \frac{2}{19} \left( \frac{1}{19} \right)^{\text{V-1}} \le  $= P(X \le |\Lambda) = \sum_{x=1}^{|\Lambda|} (\frac{1}{19})^{x-1} (\frac{1}{19}) = 0/9 \wedge 100$  $\frac{P(x \leq h)}{P(x \leq h)} = \frac{-\eta r v d}{\eta \eta v} = \frac{-\eta r \cdot d}{\eta \eta v}$ 

نام و نام مانداد في مرادلول V101919018 Chololol جراب سرل ای ة ( + = a p(n= (un= e)) = Pr f f(+ |n= r) d+ + (e) f + (tyn= e) d+ +- (+ | N=h) = -Y / ++T/h +>0 ((+E & Mh= = Un= E)) = 6/d-0/4) | -0/0/1 + 0/C J+ +6/2-0/5)/2-0/05++0/5/1 > P(+< & N(n= +Un= E))=(0/4)(1)+(0/1)(0/Va)=0/4Va)  $P(h=Y|t \geq Y) \stackrel{f}{=} P(t \geq Y|n=Y) \cdot P_Y = \frac{P(t \geq Y|n=Y) \cdot P_Y}{\sum_{n=1}^{\infty} P(t \geq Y|n=n) \cdot P_X}$ -> P(n=x/t=x) = -0/1x/-0/2+0/4+0/x f-0/0/++0/x)-0/14+0/4+ OK x 50-0/11+014 dt + 0/(x) - 0/4 + 0/1  $- > ((n=x)+2x) = \frac{0/1}{0/1} = \frac{0/4}{0/1}$ 

مام ومام من زادتي ومرادلوران Molokalo Cyclist حواب سوال لاة The socket (+00 (x0) / f xy (x,y) didy = 1 -> ) / x dy = 1  $- > \int c(\sqrt{x} - x^{r}) dx = 1 \rightarrow c\left(\frac{x^{\frac{1}{7}}}{r^{2}} - \frac{x^{r}}{c^{2}}\right) = 1$ -> (x - 1) (=1-5 c= F)  $E(x) = \int_{0}^{1} \int_{x^{r}}^{x^{r}} x(e) dy dx = r \int_{0}^{1} x^{r} dx = r \left( \frac{x^{2}}{2} - \frac{x^{2}}{2} \right)^{r}$ -> ECO = ?  $EC13 = \int_{x}^{1} \int_{x}^{1} ey dy dx = \frac{e}{F} \int_{0}^{1} x - x^{e} dx = \frac{9}{F_{0}}$ E[xy] = ~ (x -x) dx = ~ (x -x) // x - x) // > E CXX) = {

ام ونام ما نوادتی : همرادلیون به اصلاه اماله الماله المال  $E(x') = x \left( x - x - x \right) \left( x - x \right) \left($  $- > E(x) = 2 \left( \frac{1}{4} - \frac{1}{4} \right) = \frac{9}{42}$ E(1) = +/! \( \sigma \s -> E(y5) = 9  $(aV(x_9)) = E[xy] - E[x] = (x_9) = (x_9) = (x_9) = (x_9)$ Mr(x) = E[xr]-(E(x)) = 9 - (9) = 12 - (12) Var (y) = E(y) - (E(y)) = 1 - (F) = 1 at - ( J = (0V(xg)) = 19 (x.6) = 100 (3) alio esimience (3) esizo (3) alio ميس رابطم ×و لا ماملاً على باسب منب ي سود.

ام رنام فاذاری : مادلیان كد دانسجون 11010100 جواب سوال لاه (A) = ofor+ 0/0x +0/0x +0/0x +0/00+0/06+0/06 = 0/11 (B) = 0/00+0/08+0/08+0/08+0/08+0/08+0/08+0/09=0/140 P(C) = 0/04 + 0/04 + 0/04 + 0/04 + 0/01 + 0/11 = 0/69), Cul - wer, Colling rold Typec (14) المراه + ۱ ( براه ) = 0 مرا د المراه ) ا + (سراه د ) ا +0/00+0/01+0/01 سر سننم چهارسدند = 0/1 + 0/1 = 0/5) (2) الخيرة الإنهاى فرد) = ا 0/04 + 0/04 + 0/04 + 0/0(+0)01 0/0x+0/00+0/0x+0/0x+0/0x+0/0x ((२५८७)११०८०) بنج سنم -> P= 0/14 0/1+0/1+0/1 = 1/9 = 0/5 () ( 1, lm , aison en

ام د نام طافاتی و مواد لهای Mololdol & Comisal ادام جراب سرال لا ، E[x] = 0x P(A) + 1 x P(B) + YxP(c) E LXD = 0+0/24 + LX0/64 = 120 E(Y) = 0 + 1 × 0 / 1 + (× 0 / 1 + E(xr) = 0 + 1 x 0/44+ x x 0/64 = 4/1V) E(yr) = 1/x0/1 + Exo/1 + 9x0/1 + 14x0/1 + 40x0/1 + 44x0/1 E[xy] = E & P(x) (xi, yi) xi yi = 0+0/00+0/04 +0/01 + 0/14+0/09+0/4 + 0/14+0/14 +0/6+0/04 +0/01 + 0/14+0/09+0/4 + 0/14+0/14 +0/6+0/14+1/014 COV(x9Y) = E(xy) - E(x) E(n) = 0,1-4,1x1/20=0,40) var(x) = E(xy)-E(xy) = 41V-(1, 14)=0140Va) var(v) = E(1/3-(En)) = 1/1/-(4/1) = 5/29 June = (6V (X) Y) = 0/40 = 0/1