				William .	ower Total	V2077
2 1	1.7		(N	7/ >	4 7	112
J . 1	(()	$+\alpha$.	4 (X	1 1	XC 2K	ar)

$$Pxy(X,Y) = Pyx(y(X) - Px(X))$$

$$x=0, y=0 \quad Pxx(x,Y) = 0.8 \times 0.7 = 0.56$$

$$x=0, y=1 \quad Pxx(x,Y) = 0.2 \times 0.7 = 0.14$$

$$x=1, y=0 \quad Pxx(x,Y) = 0.4 \times 0.3 = 0.12$$

$$x=1, y=1 \quad Pxx(x,Y) = 0.6 \times 0.3 = 0.18$$

Paya (x,y,z)=Pzing (z/2,y). Pag(x.y) & + +3

X	X= 0	4=0	∑ =0	Pay = (x.4.2) = 0.9 x0.56 = 0.504
	X=0	3-0	Z=1	Page (x,y,2) = 0.1 x 0.56 = 0.056
	X= 0	¥ = 1	2 = 0	Pays (x, y, 2) = 0.5 ro, 14 = 0,070
W757 7,2 0 11	X=0	y=1	z = 1	Pays (2,4.2) =0.5 x0.14 = 0.070
	X=1	y=0	Z=0	Pryz (x,y, 2) = 0.8 x 0.12 = 0.096
	X=1	y=0	2=1	Payz (a, y, 2) = 0.2 × 0,12 = 0.024
	X=1	y=1	5=0	Pryz (x,7.2) = 0.3 x 0.18 = 0.034
	X=1	y=1	8 - 1	Pryz (x, y, z) = 0.7 x0, 18 = 0, 126

CONTRACTOR COST. NO.	1 (ff) (8)				The second secon	
	$\overline{\chi}$	N	Ś	PXYZ (X.4.Z)	6 10 10 10 10 10 10 10 10 10 10 10 10 10	
*** VARIAN	0	0	0	0.504		# ====
	0	0	I	0.056		ne
	0	1	0	0.070	· · · · · · · · · · · · · · · · · · ·	
	0	1	1	0.070	\$\) 200 \text{200 \t	
	1	٥	0			
	1	0_	_/.	0.096		20
		1	0	0,054	W SEC WAYS WAYS WAYS WAYS	
v		1	1	0, 126		

(2) Px12 (x12) = Px2(x.8)
P2(2)

 $P_{XZ}(0.0) = P_{XYZ}(0.0.0) + P_{XYZ}(0.1.0) = 0.564 + 0.070 = 0.374$ $P_{XZ}(0.1) = P_{XYZ}(0.0.1) + P_{XYZ}(0.1.1) = 0.056 + 0.070 = 0.756$ $P_{XZ}(1.0) = P_{XYZ}(1.0.0) + P_{XYZ}(1.1.0) = 0.096 + 0.054 = 0.150$ $P_{XZ}(1.1) = P_{XYZ}(1.0.1) + P_{XYZ}(1.1.1) = 0.024 + 0.126 = 0.150$

Pz(0) = Pxz(0.0) + Pxz(1.0) = 0.574 + 0.150 = 0.724 Pz(1) = Pxz(0.1) + Px2(1.1) = 0.126+ 0.150 = 0.276

 $P_{X|Z}(0|01) = \frac{0.574}{0.724} = 0.793 \quad P_{X|Z}(011) = \frac{0.126}{0.276} = 0.457$ $P_{X|Z}(1|0) = \frac{0.150}{0.724} = 0.207 \quad P_{X|Z}(110) = \frac{0.150}{0.276} = 0.543$

	X	3	Px12 (7/2)			wildland 1234 Ex	
	D	O	0.743	0) 66 E 1880 -1810	manaco co	M8(6)* 18	vee var
	0	f	0.457	1030 <u>0 - 10000 1</u>		V 00794000444 - 1254	
.7%	• 1	0	0,207			#2=	
	ı	1	0.543		60		

$$W_{1} = 0.1 W_{0} + 0.6W_{2} \cdots @$$

$$W_{2} = 0.1 W_{1} + 0.7W_{3} \cdots @$$

$$W_{3} = 0.5 W_{1} + 0.3W_{3} \cdots @$$

$$W_{0} + W_{1} + W_{2} + W_{3} = 1 \cdots @$$

(b)
$$P_{x(0)} = 0.9w_0 + 0.5w_1 + 0.4w_2 + 0.3w_3$$

 $= 0.9x \frac{28}{47} + 0.5x \frac{7}{47} + 0.4x \frac{7}{47} + 0.3x \frac{7}{47}$
 $= \frac{252}{470} + \frac{35}{470} + \frac{28}{470} + \frac{15}{470}$

$$= \frac{330}{470} = \frac{33}{47} \qquad P*(0) = \frac{33}{47}$$