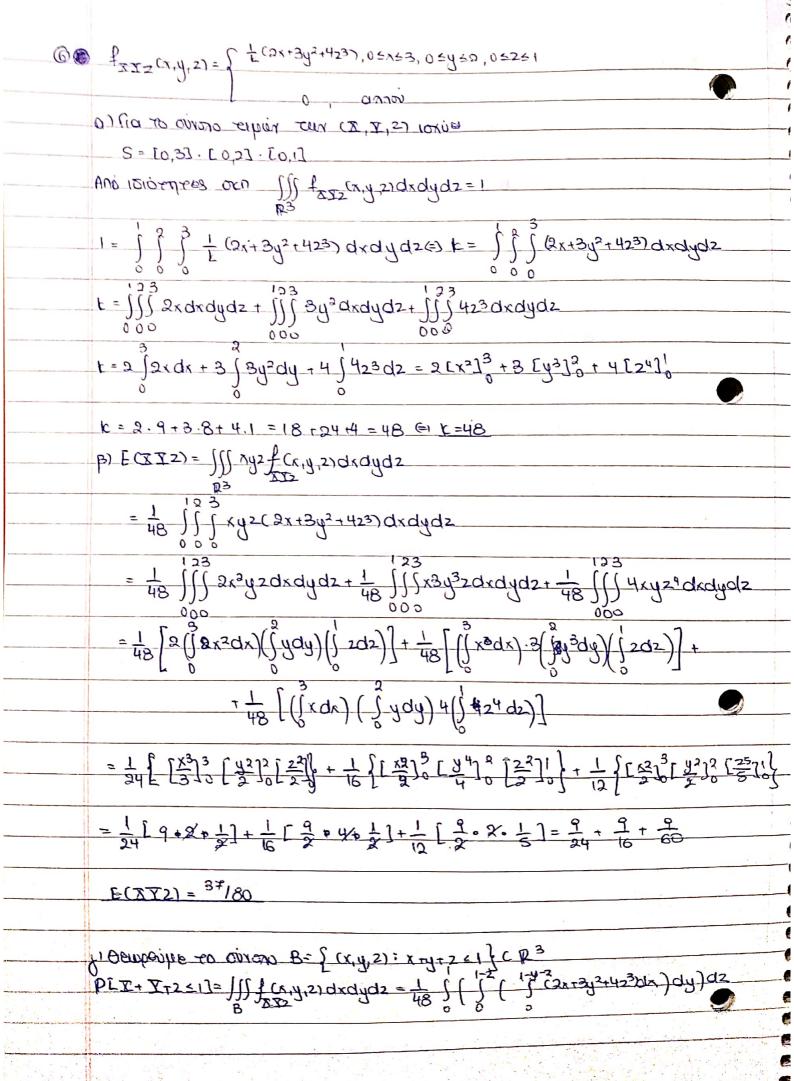
	(	Φυρράδιο ΤΧ								
6		UAA	2010	1A						
(	$\bigcirc$ $\mathbb{Z} \sim \operatorname{Bern}\left(\frac{1}{4}\right)$ , $\mathbb{Z} \sim \operatorname{Bern}\left(\frac{1}{2}\right)$ , $\mathbb{Z} = \mathbb{X}$ xor $\mathbb{Y}$									
	- 11	a) 0, I can I eivan overopennes herapontes								
		P=PLZ=1]=P({X=1}+) (Y=0)]+P[{X=0}U{X=1}]= 1.1 + 3.1								
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
		7=1/8								
	E F	B) An o1 I cal 2 einal anergoipmes, Da loxuel P[1/2=x]1/2=2/]=P[X=x]P[2=2]								
		P[x=1]U{2=1]]=P[x=1]U[Y=0]]=P[x=1]P[Y=0]= 1.1=1								
		(a) P[X=1]P[2=0=1.1=1								
	0	P[{X=0}U{2=1}]=P[X=0]PLY=1]=3.1=3								
1		$row P[x=a]P[z=1] = \frac{3}{4} \cdot \frac{1}{2} = \frac{3}{8}$								
-	11	P[{X=1}U{2=0}]=P[X=1]P[X=1]= + + = = =								
-		$EQU P[X=1]P[2=0] = \frac{1}{4} \cdot \frac{1}{2} = \frac{1}{8}$								
	0	P[{x=0} U = 0 ]= P[x=0] P[Y=0] = = = = = = = = = = = = = = = = = =								
		$COUP(X=0)P(Z=0)=\frac{3}{4}\cdot\frac{1}{2}=\frac{3}{8}$								
		aipa or 2 car 2 siras one gaip tyres.								
-										
	<u></u>	α) Το πιθανώ ενδεχόμανα της χαριάς είναι χι, η = {1,2,3,4,5,6}								
		P[x=x, ] U{x=x,] = P[x,=x,] P[x=x] = 1 = 1 = 1 = x = x,] U{x=x,} = x,] = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 =								
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		X	1/2-	2/20	8 8/86	2/36	2/36	ુ ૧/ <sub>36</sub>	11/36	
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		ລ	0	0	1/86	2/36	2/86	2/36		
		3	0	0	0	1/36		<sup>9</sup> /36		
4		<u>ч</u> 5	0	0	0	0	1/36		· ·	
		6	0	0	0	0	0	1/86		
					5/86	1 11		11/26		
1	)									
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$$\frac{1-y^{-2}}{(2x+3y^{2}+42^{3})}dx = \frac{1}{x^{2}} + \frac{1}{(3y^{2}+42^{3})} + \frac{1}{y^{2}} = \frac{1-y^{-2}}{(1-y^{-2})^{2}} + \frac{1}{(3y^{2}+42^{3})} + \frac{1}{(1-y^{-2})^{2}} + \frac{1}{(3y^{2}+42^{3})} + \frac{1}{(1-y^{-2})^{2}} + \frac{1}{(1-y^{-2}$$

= 
$$[(1+2^2-2^2+42^3-42^4)y + \frac{4^2}{2}(2-2-42^3) + \frac{4^3}{3}(4-32) - \frac{3447^{1-2}}{4}] =$$

$$= 225 - \frac{15}{4} \cdot 24 + \frac{1}{6} \cdot 2^3 + \frac{7}{2} \cdot 2^2 - \frac{5}{2} \cdot 2 + \frac{7}{12}$$

$$\int_{0}^{1} \left( \frac{925 - 15}{4} \frac{15}{4} \frac{24}{6} + \frac{1}{6} \frac{23}{3} + \frac{7}{4} \frac{29}{2} - \frac{5}{2} \frac{2}{4} + \frac{7}{4} \right) d2 = \left[ \frac{1}{3} \frac{26}{6} - \frac{3}{4} \frac{25}{24} + \frac{1}{4} \frac{24}{6} + \frac{7}{4} \frac{23}{24} - \frac{5}{4} \frac{27}{4} \frac{7}{4} \right]$$

$$= \frac{1}{3} - \frac{3}{4} + \frac{1}{24} + \frac{7}{6} - \frac{5}{4} + \frac{7}{12} = \frac{8 - 18 + 7 + 21 - 20 + 14}{24} = \frac{+38}{24} = + \frac{18}{8}$$