SIE321 - Probabiliste Operations Research.	
1/10/1	
Agusta Esperanon HWI 1/19/23	
& violet. Assume six sites equally likely to show when the cube is tossed. The cube is tossed once.	-
S= Sh, W, B, G, Y, V3	
$\begin{cases} P(X=0) = \frac{2}{6} = \frac{1}{3} \\ P(X=1) = \frac{2}{6} = \frac{1}{3} \end{cases} \times \begin{cases} 0 \mid 2 \\ P(X=1) = \frac{2}{6} = \frac{1}{3} \end{cases} \times \begin{cases} 0 \mid 2 \\ P(X=1) = \frac{2}{6} = \frac{1}{3} \end{cases}$	
2. Suppose sample space S consists of four points	
S= $\{w_1, w_2, w_3, w_4\}$ and the associated prob. ever the events: $\beta(w_1) = 0.2$ , $\rho(w_2) = 0.3$ , Define the $\rho(w_1) = 0.4$ $\rho(w_2) = 0.4$	
$(\omega_2) = q_1  \alpha \mid \alpha$	
$\chi_{1}(w_{2}) = 2$ , $\chi_{2}(w_{3}) = 1$ , $\chi_{3}(w_{3}) = 1$ , $\chi_{4}(w_{3}) = 1$ , $\chi_{5}(w_{3}) = 1$ , $\chi_{5$	
and the RV x, by $ \chi_{2}(w_{1}) = 1,  \chi_{1}(0.6(6.7) = 0.72  0.6(6.3) = 0.72 $	0.18
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$P(\chi, \chi_2) = 1$	

The randon Variable (RV) X has density function of given by fx(y) = 5 6j2, for 0 < y < 0 ky, for 0 < y < 1 0, elsewhere a) Assume 6=0.8 defermine k: f f (y) dy = 1 b 1 y 2 dy = 1 k [73] | 1 K[1/3-0.83]=1 - 0.5/2 =1 , 0.488 E= 

