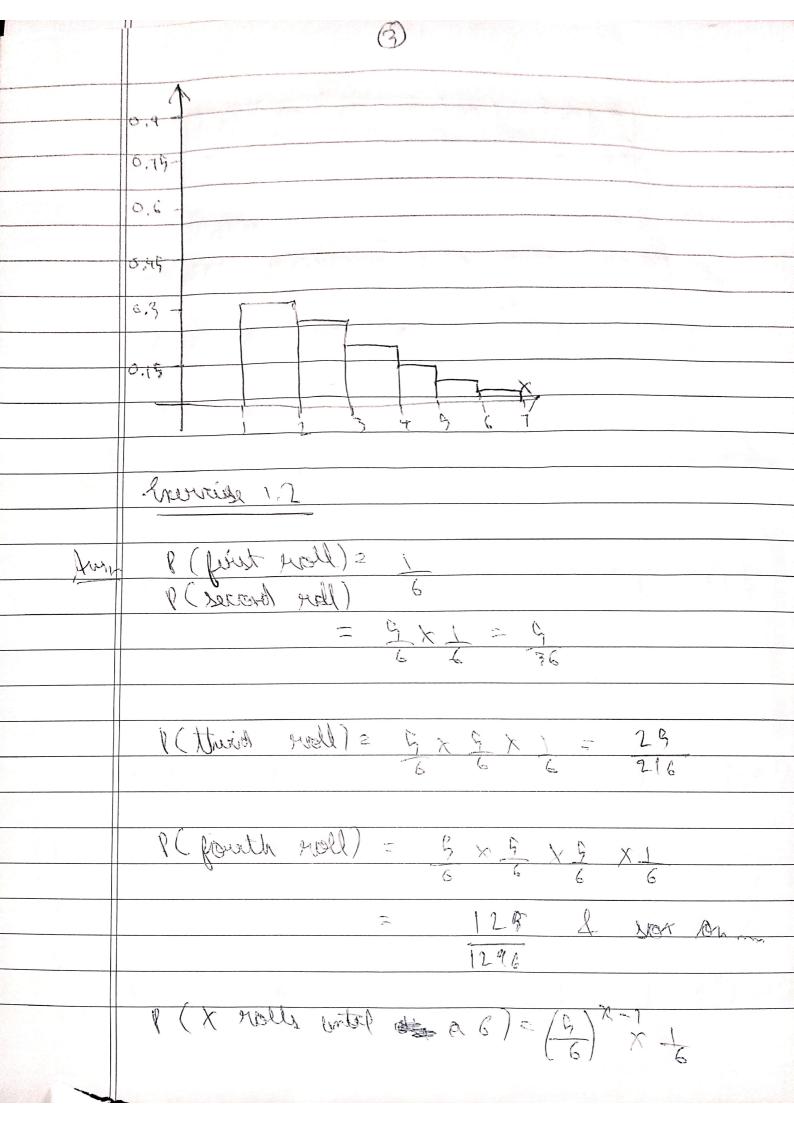
02/23/202	MANCISURE 105 HW-6 BLAZERS W 7 SSRINING
	Exercise 1.1
Aus:	elyment ent , exit out prillow for traminegra ent no
	S = (1,1), (1,2), (1,3), (1,4), (1,5), (1,6), (1,
	Let X be the minimum of the two numbers obtains - 2d. The possible malus X can take pass 1, 2,3, 4, 5, and 6.
	The percelulity mass function of X . $B(X=1) = \{P(X, \{1, 1\}, \{1, 2\}, \{1, 3\}, \{1, 4\}, \{1, 5\}, \{1, 6\}$
	2 <u>11</u> 36

 $P(\chi=2) = V S(2,2), (2,3), (2,4), (2,5), (2,6), (3,2), (6,2) ?$ $V(x=3) = V \{(3,3), (3,4), (3,5), (3,6), (4,3), (5,3), (6$ 3 7 $R(X=4) = R_{2}(4,4), (4,5), (4,6), (5,4), (5,4)$ V(x29) = P(5,9), (5,6), (6,5)} Q(X=6) = (\(\frac{1}{2}\)(6,\(\dagger\))} = \(\frac{1}{36}\) you'd for nonterray materialistics philisterland gold. V(N) 36 36 36 36 36 2 (2)



	Procervise 1,3
tus:	Ferran the interest (0,1):
	P (selecting a point less thour 2) = 2
	No of provide well
	2 ~ Biranial (n=9, N=2)
	P(x22)= 1- P(x=0) = P(x=1)
	$= 1 - 2^{\frac{1}{3}} \times (2)^{\frac{1}{3}} \times (3)^{\frac{1}{3}}$
	$-\frac{\zeta^{5}}{5} \times \left(\frac{2}{5}\right)^{1} \times \left(\frac{3}{5}\right)^{4}$
7 22	
	$= 1 - \frac{3}{5} - \frac{5}{5} \times \frac{2}{5} \times \frac{3}{5}$
	- 1 - 2+3 - 810 3125 3129
	2 1 - 2 43 - 8 to
4/4	2 2072 3125
	· · · · · · · · · · · · · · · · · · ·
	P(22)= 0.66304

locarraise 1.4 Ans The centrum were belood type can be fround only in 0,09.1. of the people. Hence probability top a person having they surge blood type is h = 0.05 = 0.0005 & M= 4000, The average member of people paring this peak blood of it is flowers book good and elypted for reducers ent sol & tol They have block into proposed in exposed on the proposed in a group part that will have been single in a group that will have been single $V(\chi_{2} \leq 2)_{2} = \frac{1}{2} e^{-2} \frac{1}{2} = V(\chi_{20}) + V(\chi_{21})$ $\sqrt{(x \le 2)} = \frac{e^{-2} \cdot e^{-2} \cdot 2^{1} + e^{-2} \cdot 2^{2}}{0!} + \frac{e^{-2} \cdot 2^{2}}{1!} = \frac{e^{-2} \cdot 2^{2}}{2!}$ 3 6-5 + 5x6-5 # 5x6-5

P(x 42)= 0.1393+ 0.2707 +0.2707 20.6767 V(X 5 2) 2 0.6767 Exercise 1.5 p. 2. 0 = (fur words) 9, 071=11, great AMIL 1 X = M = 190 x 0,99 1 (tel have tests)= N(X < 148) = 0.505 [: Forem poisson