	Saihaj Gulah
Proble on 1	11/23/22 HW5
Probability is IPI	
Probability is IPI	
(e)	
apostabilité of elvosing & distinct of	- 16
a proportion to a shift of	(3
wans we choose to district	15 8
in the second	- 13
wents to chaste out of	15
2 0.1012	

Pidolen 2
e start of 2 odd digits
s digits vique
*generate 8  *get = mont match citeia
possible #s. even nears  Hust new regs odd op x x s for Siet digit  s. 5. 4. 7. 6. mane no chiest his  ever op nos for bodd but not first  ones
All possible #5: 0-99999 -> 100000 #5
Prodo of # show meet cipera: 5.5.4.7.6 = 0.042
Bernouli Trial ~ (P-0.042) (9) - (6.439 × 10)

Problem 3
PCA) = At least 26 dice show 4t  = P(2 dice 42) & P(23 dice 44)
V(A) = At least 26 lice show 4t
2 (C) Die 12) G (C) Die 12)
$= {\binom{3}{2}} {\binom{3}{6}}^2 {\binom{3}{6}}^1 + {\binom{3}{3}} {\binom{3}{2}}^3 {\binom{3}{2}}^0$
2 0.5 5
P(B) = all 3 same value
2 would to got au 3 some value
nous so olg of 2 die
= 6.0.0 = 6 = 1 6.0.0 = 2.0 = 30
P(AlB): At least 2 dill show 4t green all one some P(AlB): 2=0.5:P(A) 5: redependen
P(AIB)= = O.S = PCA) sindependen
51,213,4,5,63
Ce cases of all some > 3 of them show ut
Independent

Problem y (1?) sists a type on codio
X is # of hards so get a Rush
P(X=1)= prob of 5/6 of some suit all world  = (4). (13) > chossing some had  = (32)  Some had  (32)  Some had  Some
20.00198 is probabilite of fugh
P(x=2)= 0.00198. (1-0.00198). (1) 100 poly (2) bc in from plant of the plant of
E(Q) = 5 : ((-b), ·b = (x (x b)), ·b = b
So,
used arreal Sou. 85 is expected # 08  number, not harde  this rounded
this rounded

Problem 5 (2?) siss a typo on codio
Team won 4 out of 5 \$ 80%.  Chance so play genes is 75%.  When play 2 70%, When 704 => 50%.
14 plans: $(0.7)^{4} \cdot (0.3)^{1} \binom{5}{4} = 0.34015$
75 doer's: (0.5) 1.0.5 (2) = 0.15675 P(proped   uen 4 ou 5) - P(proped 8 uen 4 of 5)
= P Cusa 4 of 3 given (played). P (played)
P(wer 4 of 5)  = P(wer 4 of 3 given (placed). P(placed) [=
P(wan 4 of 5) planted) + P(won u of 5) nos planted o P (nos planted)  = 10 tal pob
- 0-36015.0.75 0.36015.0.75 + 0.18675-0.75 = 0.874