Mean $\mu = np$ Veriance $\sigma = npq$ $n \neq 1.8$ $np \neq npq = 1.8$ np(1+q) = 1.8 np(1+q) = 1.8

=
$$np(2-p) = 1.8$$

 $\Rightarrow 5p(2-p) = 1.8$

$$\Rightarrow P = \frac{9}{5}, \frac{1}{5}$$
 $P \neq \frac{9}{5}$

fords (8)

from the

(3) It is known that 2% or the account in company are deliqued of 5 accounts sciented at sandoms.

1) atmost 2 accounts will be delig

2) Atmost 4 will be p = 1-P=0.98

n = 5

Net x denote the delignent accont

then

x ~ B(a, n, P)

P(x=n) - (n)

= 50000.985 + 500.02×0.984 + 500.02×0.984

= 0.999

② Atmost 4 $P[X \le 4] = 1 - P[X > 4]$ = 1 - P[X = 5] = 1 - 5 - 5 - 0.025.098 = 1 - 5 - 5 - 0.025.098 = 1 - 5 - 5 - 0.025.098

4. Arandom we x takes the
$$Val = -3, -2, -1, 0, 1, 2, 3$$
 such that $P(x=0) = P(x>0) = P(x<0)$ and $P(x=-3) = P(x=-2) = P(x=-1)$ $= P(x=1) = P(x=2) = P(x=3)$ obtain probability dist of function $P(x) = P(x) = P(x=3) = P(x=3)$ of $P(x) = P(x=1) = P(x=2) = P(x=3)$ of $P(x) = P(x=1) = P(x=3) = P(x=3)$ of $P(x) = P(x=1) = P(x=3)$ of $P(x) = P(x=0) = P(x=0) = P(x=0)$ of $P(x) = P(x=0) = P(x=0) = P(x=0)$ of $P(x) = P(x=0) = P(x=0) = P(x=0)$ of $P(x) = P(x=0) =$

Thursday 1

A coin is biased so that head hive as likely to appear as the find the coin wo losed twill find that the coin wo losed twill find experience also variance of head.

experience also variance of head.

Act x Bi-m num ber of head.

:.- fca)= }2k -x=0,2 E x207

 $\sum_{x=1}^{\infty} f(cx)^{2} = 1 \Rightarrow 3k^{2} + 1^{2} = k^{2} + \frac{1}{3}$

P=P(Head) = & 9 = 1

n= No of emphials = 2

: Experiance of shobmial distro

 $=2\times\frac{9}{3}=\frac{4}{3}$

Variance of binomial = npv distribution = 2.9.1

= 4

$$P(3 < X \leq 6) = 3k + k^{2} + 2k^{2}$$

$$= 3k + 3k^{2}$$

$$= \frac{3}{10} + \frac{3}{100}$$

$$= \frac{33}{100}$$