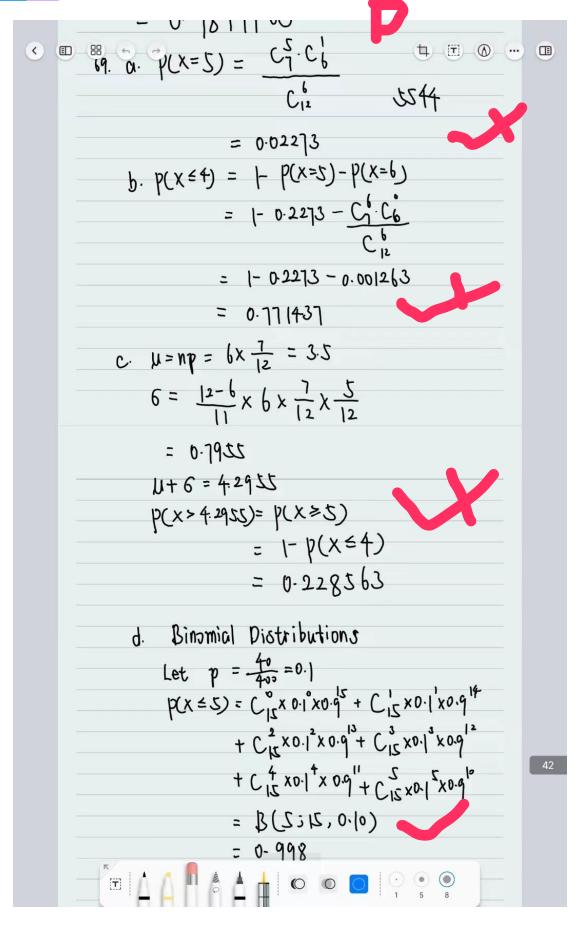




	0.82	··· •
3.5 68. a. Hy pergeometr	ic distribution	
h(x; 6,22,20)	O ME ALLEGATION	
b. p(x=2)		
= C <sup>2</sup> <sub>12</sub> × C <sup>4</sup> <sub>8</sub>		
C 20		
$= \frac{ 2x }{2x} \times \frac{8x7}{4x3}$	x 6x5 ,x 2x1	
20×19×17×	901	
1×6×4×3×2×		
= 0.119195 P(X ≤ 2)		
= b(x=0)+ P	(x=1) + 1(x=2)	
= (12.68 + .	$\frac{C_{12} C_{8}^{5}}{C_{12} C_{8}} + \frac{C_{12}^{2} C_{8}^{4}}{C_{12} C_{8}}$	
20	20 20	-
	+0.0173374+0.119195	70
= 0.1372547		
$P(\chi \ge 2)$	- D(V/ 2.1)	40
$=  -(p(x \le 2)$		
= 0.98/940	5.01	
$69. \text{ a. } P(X=5) = \frac{1}{2}$		









$$\nabla(x) = \frac{2(\frac{1}{2})}{\frac{1}{2}} = 4$$

$$\nabla(x) = \frac{2(\frac{1}{2})}{(\frac{1}{2})} = 4$$

$$\frac{1}{2} = \frac{2}{2} = \frac{2}{2} = 4$$

$$\frac{1}{2} = \frac{2}{2} = \frac{2}{2} = \frac{2}{2} = \frac{2}{2} = \frac{2}{2}$$

$$\frac{1}{2} = \frac{2}{2} = \frac{2}{2} = \frac{2}{2} = \frac{2}{2}$$

$$\frac{1}{2} = \frac{2}{2$$



34. (a. 
$$\mu = np = 0.1\% \times 10000$$
 $= 10$ 
 $6 = \sqrt{npq} = \sqrt{10000 \times 0.1\% \times 19.9\%}$ 
 $= 3.16$ 

b.  $\times$  has appromatically poisson probability

Distribution

 $p(x>10) = 1 - F(10; 10)$ 
 $= 1 - 0.5\%$ 
 $= 0.417$ 

c.  $p(x=0) = \frac{e^{-10} \cdot 10^{\circ}}{0!}$ 
 $= 0.0000454$ 

86. (a.  $p(x=4) = F(4; 5) - F(3; 5)$ 
 $= 0.4175$ 

b.  $p(x \ge 4) = [-F(3; 5)]$ 
 $= 1 - 0.265$ 
 $= 0.735$ 

C.  $\mu = np = 45 \min_{x \in S_{0}} \times \frac{5}{(0 \min_{x \in S_{0}})}$ 
 $= 3.75$ 



