① 积 1. 次 2更介, 工面 勾上 解 次裁 X, 海炭型 52={0,1} pku.中抽取一名同学,其 bmi /2. 连续型 S= {MAPkner} ③ pku. 中抽取100名同学,支持早人取消的人数 X3. 见一至loss pkuer意见了有可能了(lay) 图 陷机抽取某天菜治的红发平到范婧儿 X十 馬根型 52={有年的到站情况] 图 随机构及天网络学堂的区内应时间 NJ 连缓型

九=《所有中局龙时间了。

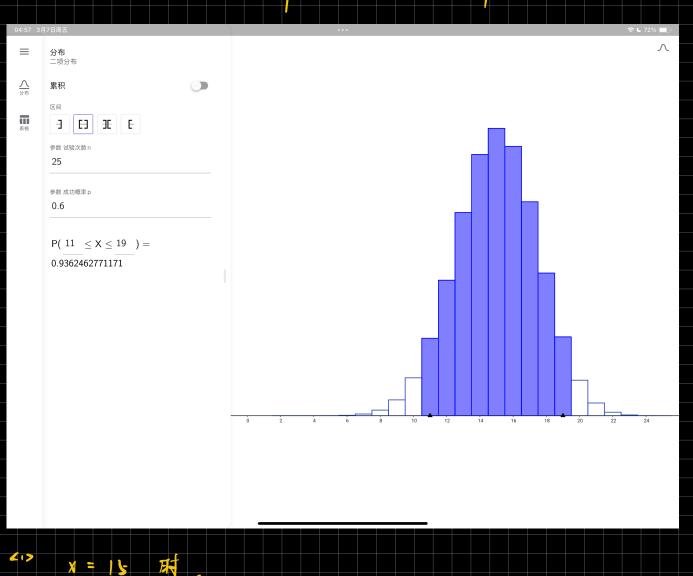
 $4 \Rightarrow y \Rightarrow x \qquad f(y) - f(x) = f(x < x \le y) \ge 0$ 不 P(X) 草樟. 又 「(水) 有是 那么由草纸收敛定理和 hm Fix) , Im Fix) 57 4  $Z \qquad P(x) = | \qquad P(\phi) = 0$ m = (x) = 0 | m = (x) = 2 = 0 EXNJ车坝造城亚垛级于入。 跳时有 { X ≤ Xn} 为逆城事件序和 ( f ( Xn ) V )  $\Rightarrow \lim_{n\to\infty} f(x_n) = f(x)$ (2)取 知,车境,则(X=Xn)=X地里证)  $P(a \leq X \leq b)$ = P(ac X & b) + P(X = a)  $= F(b) - F(a) + F(a) - \lim_{x \to a^{-}} P(a)$ = F(b) - /m = F(x)

 $P(w_1) = \frac{1}{3} (z = 1, 2, 3)$  $\mathbb{Z}^{\mathcal{L}}, \quad P(\chi \in \mathcal{I}) = P(\chi \in \mathcal{I})$  $(X+Y)(w_1) = 3$  $(x+7)(\omega_x) = 5$  $(\chi + \gamma)$   $(w_3) = 4$  $\Rightarrow P(x+)=3)=P(x+)=5)=P(x+)=3$ ( ) - X) ( w,) = 1  $(\gamma - \chi)$  (wz) = 1 $(7-\lambda)(\omega_3) = -2$  $P(J-X=-z)=\frac{1}{3}$  $\Rightarrow P((-\chi = 1) = \frac{2}{3}$ Var (x) = E [ (X-E(x))]  $= \overline{z} (xi - E(x))^{2} f(xi)$ 2 /1 f(x1) - 2 E(x) 2 /1 f(x1) + E(x) 2 f(x)  $= E(\chi_1) - E(\chi)$ 

$$\begin{array}{lll}
T_{5} & \sim & \chi \in \{1, 2, \cdots, a+1\}. \\
P(x=k) & = & \frac{\binom{a+1}{k}\binom{b}{k}}{\binom{a+b}{k}} \\
P(x=k) & = & \frac{\binom{a+b}{k}\binom{b}{k}}{\binom{a+b}{k}} \\
P(x=k) & = & \frac{\binom{a+b}{k}\binom{b}{k}}{\binom{a+b}{k}} \\
P(x=k) & = & \frac{\sum_{k=1}^{k} kp^{k-1}(1-p)}{\sum_{k=1}^{k} kp^{k-1}(1-p)} \\
P(x) & = & \frac{\sum_{k=1}^{k} kp^{k-1}(1-p)}{\sum_{k=1}^{k} kp^{k-1}(1-p)} \\$$

$$\begin{array}{l} T_{1} & x \in \mathbb{N}^{+} \\ P(X = k) = (1 - p)^{k-1} P \\ & = p \quad (A = k) \\ & = p \quad$$

## 楚用 CAS 计算器 辅助为新



$$227 \quad M = 3$$

$$237 \quad \delta^{2} = 5.978$$

$$247 \quad P(M-264X \in M+28) = P(11 \in X \in 19)$$

$$= 0.9362.$$