$$P(\times = -5) : \frac{1}{3}$$

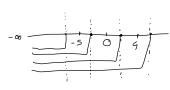
$$P(\times = 0) = \frac{1}{3}$$

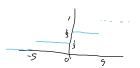
$$P(\times = 4) = \frac{1}{3}$$

 $F_{\times}(x) = P(\times \times x) = P(\omega \in x \cdot X(\omega) \times x)$ pr $\forall x \in \mathbb{R}$

$$F_{X}(x) = \begin{cases} \emptyset & \chi < -5 \\ \frac{1}{3} & -5 < \chi < 6 \\ \frac{2}{3} & 0 = \chi < 9 \end{cases}$$

$$|x| = 0$$





3

$$\frac{\text{Meoih}}{E(X)} = \sum_{p, x_1 \in S} x_{11} \cdot p \times (x_{11}) \\
x_1 \cdot p(x_1) + x_2 \cdot p(x_2) + x_3 \cdot p(x_3) \\
= -S \cdot \frac{1}{3} + O \cdot \frac{1}{3} + q \cdot \frac{1}{3} \\
= \frac{-S}{3} + O + \frac{4}{3}$$

Var. AN 20
$$Var(X) = \sum_{i=1}^{K} (x_i - EM)^2 p \cdot i$$
oppose
$$\sum_{i=1}^{K} x_i^2 p_i - E(x)^2$$

$$\begin{cases}
\varphi_{\theta R}(X) = \left(-5 + \frac{1}{3}\right)^{2} \cdot \frac{1}{3} + \left(+ + \frac{1}{3}\right)^{2} \cdot \frac{1}{3} + \left(\frac{1}{2} + \frac{1}{3}\right)^{2} \cdot \frac{1}{3} \\
= \left(-\frac{1}{3} - \frac{1}{3}\right)^{2} \cdot \frac{1}{3} + \frac{1}{3} - \frac{1}{3} + \left(\frac{18}{3}\right)^{2} \cdot \frac{1}{3} \\
= \frac{196}{3} - \frac{1}{3} + \frac{1}{27} + \frac{169}{27} - \frac{1}{3} \\
= \frac{196}{27} + \frac{1}{27} + \frac{169}{27} = \frac{1}{3}
\end{cases}$$

$$\vdots$$

$$P(y=-5a+b)=\frac{1}{3}$$

$$P(y=b)=\frac{1}{3}$$

Media

aso

$$E \times = (-Sa+b) \cdot \frac{1}{3} + b \frac{1}{3} + (4a+b) \cdot \frac{1}{3}$$

$$=\frac{-5a+6}{3}+\frac{6}{3}+\frac{4a+6}{3}$$

$$= -\frac{Sa}{3} + \frac{b}{3} + \frac{b}{1} + \frac{4a}{3} + \frac{b}{3}$$

$$(-Sa+b-(-a+3b))$$
 $\frac{1}{3}+(b-(-a+3b))$ $\frac{1}{3}$

$$\left(\frac{-15\alpha + 3b + \alpha - 3b}{3}\right)^{2} + \left(\frac{3b + \alpha - 3b}{3}\right)^{2} + \left(\frac{12\alpha + 3b + \alpha - 3b}{3}\right)^{2} = \frac{1}{3}$$

$$\frac{1}{9} = \frac{136 a^{2}}{9} + \frac{1}{3} + \frac{169 a^{2}}{9} = \frac{1}{3}$$

$$= \frac{196 a^{2}}{27} + \frac{02}{27} + \frac{165 a^{2}}{27}$$

$$=\frac{366}{27}$$

$$=\frac{127}{9}$$

$$E_{x} = b \cdot \frac{1}{3} + b \cdot \frac{1}{3} + b \cdot \frac{1}{3}$$

$$= \frac{b}{3} + \frac{b}{3} + \frac{b}{3}$$

$$= \frac{3b}{3}$$

$$= \frac{b}{3}$$

VARIANZA

$$\begin{pmatrix} b - b \end{pmatrix} \cdot \frac{1}{2} + \begin{pmatrix} b - b \end{pmatrix} \cdot \frac{1}{2}$$

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$$\frac{1}{2} + \frac{1}{2} + \frac{1}$$

$$Ex = (5a+b) \cdot \frac{1}{3} + \frac{6}{3} + (-4a+b) \cdot \frac{1}{3}$$

$$= \frac{(5a+b)}{3} + \frac{5}{3} + (-4a+b)$$

$$\frac{5a+5+5+5-9a}{3}$$

$$\frac{2}{3}$$

$$VAR(X) = \left(\frac{a+3b}{3}\right)^{2} + \left(\frac{b-(a+3b)}{3}\right)^{2} + \left(\frac{b-(a+3b)}{3}\right)^{2} + \left(\frac{a+3b}{3}\right)^{2} + \left(\frac{a+3b}{3$$

$$= \frac{1960^{2}}{27} + \frac{0^{2}}{27} + \frac{1690^{2}}{27}$$

