



평균, 분산,

표준편차

E(X)

V(X

 $\mathfrak{d}(X)$

ex) ने49 प्रे

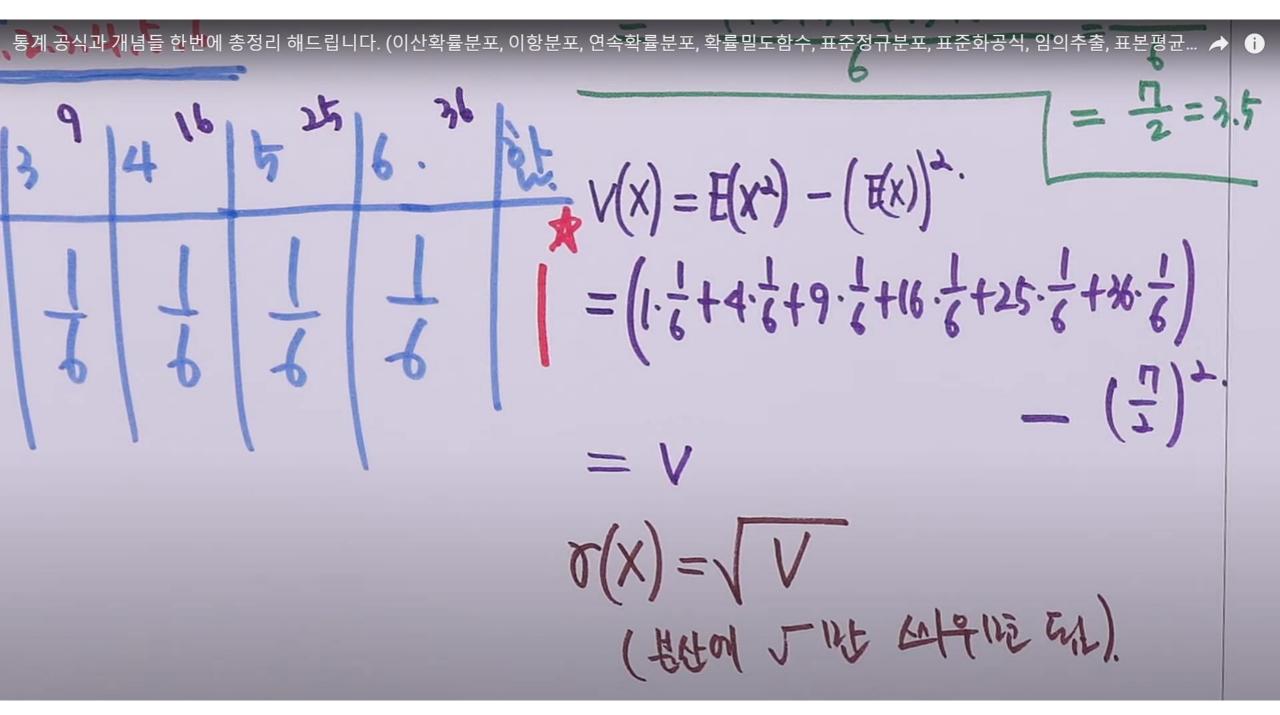
长. 好到好X=1,23.4.5.6

 $E(X) = I \times P(X)$ $= \frac{1 \cdot 6}{6} + 2 \cdot \frac{1}{6} + 3 \cdot \frac{1}{6} + 4 \cdot \frac{1}{6} + 5 \cdot \frac{1}{6} + 6 \cdot \frac{1}{6}$ $= \frac{1 \cdot 6}{6} + 2 \cdot \frac{1}{6} + 3 \cdot \frac{1}{6} + 4 \cdot \frac{1}{6} + 5 \cdot \frac{1}{6} + 6 \cdot \frac{1}{6}$

$$V(x) = E(x^{2}) - (E(x))^{2}$$

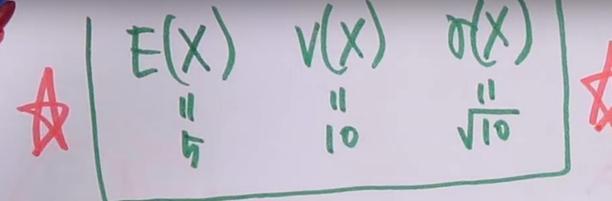
$$= (1 \cdot \frac{1}{6} + 4 \cdot \frac{1}{6} + 9 \cdot \frac{1}{6} + 16 \cdot \frac{1}{6} + 25 \cdot \frac{1}{6} + \frac{1}{46} \cdot \frac{1}{6})$$

 $-\left(\frac{2}{4}\right)$



2. 이항분포 / 이항분포의 평균, 분산, 표준편차

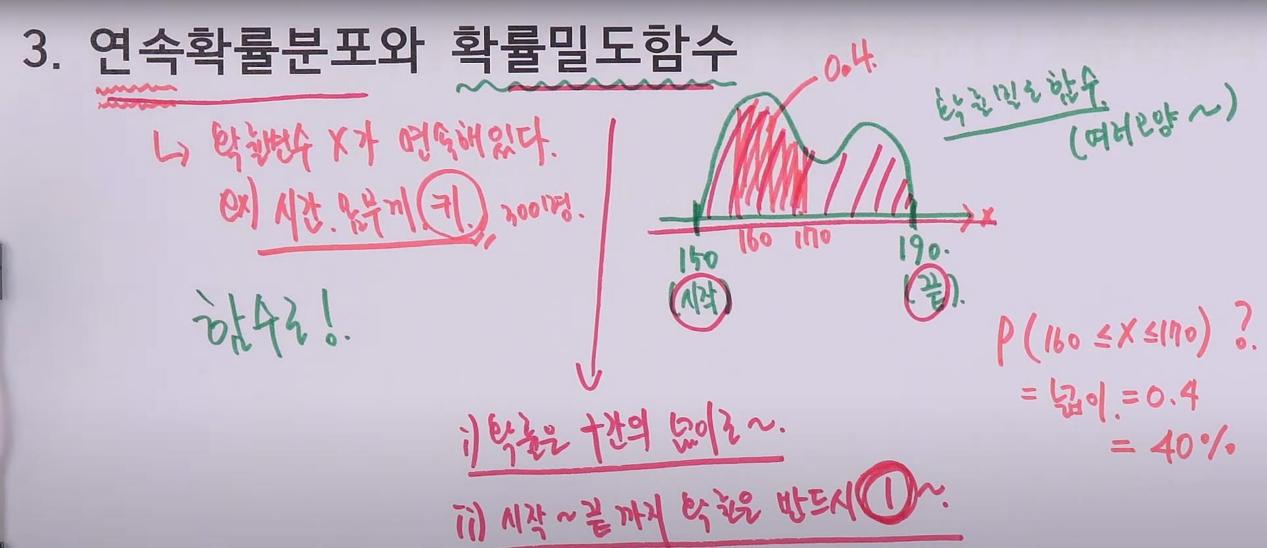
विभिन्द्रम् मुख्न व्यक्तः N # मध्य भूट त्या. ्राप्तिक स्थापित १५ मेर् ex). ** 24 524. P= 4 , 9= 3 इस क्रांच. $\frac{X = 0, 1, 2, 3, 4, 5}{2(\frac{3}{4})^{3}} \begin{cases} E(X) = n\rho = \frac{5}{4} \\ V(X) = n\rho q = \frac{5}{4} = \frac{15}{16} \end{cases}$ $\sqrt{V(X)} = \sqrt{N\rho q} = \sqrt{\frac{15}{4}} = \sqrt{\frac{15}{4}}$ P(X=r) = n Cr. pr. qu-r



$$E(\alpha X+b) = \alpha \cdot E(x)+b$$
.
 $V(\alpha X+b) = \alpha^{2}V(x)$

$$E(2XH) = 2E(X) + 1$$

= 10+1=(1)
 $b(3X-1) = \sqrt{(3X-1)}$
= $\sqrt{9V(X)}$
= $\sqrt{90}$.



통계 공식과 개념들 한번에 종성리 해드립니다.(이산확률분포,이항분포, 5. 이항문포 to 성규분포

$$B(n,p)$$
 (m,σ^2)

ex)
$$\beta.(00, \frac{1}{4})$$
. (55)

$$E(X) = 100.4 = 15$$

 $V(X) = 100.4.4 = 15.4 = 15$

