$$\begin{array}{c} \text{PII}_{\frac{1}{2}} \\ \text{Y} = f(\alpha)^{n} \quad \text{Y}' = \text{Nf}(x)^{n} \cdot f(\alpha) \\ \text{ex} \quad \text{Y} = e^{\sin \alpha} \cdot \text{y}' = e^{\sin \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\sin \alpha} \cdot \text{y}' = e^{\sin \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\sin \alpha} \cdot \text{y}' = e^{\sin \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\sin \alpha} \cdot \text{y}' = e^{\sin \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\sin \alpha} \cdot \text{y}' = e^{\sin \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\sin \alpha} \cdot \text{y}' = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\sin \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\sin \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\sin \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\sin \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\sin \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\sin \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\sin \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\sin \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\sin \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e^{\cos \alpha} \cdot (\cos \alpha) \\ \text{ex} \quad \text{Y} = e$$

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· 鲜青 · random variable ex) 7/ **可对에대한 对意芒** 对是型之效4(P-D-F) · 对你其正二对开某至(hormal distribution) $X = \{x_1, \dots, x_N\}$ $E[X] = X = M_X = mean = \frac{n}{2}x_i = \frac{n}{2}x_i$ $\frac{n}{2}$ e_{X}) $= \frac{1}{6}$ $= \frac{1}{$ $E(x) = \sum_{x \in X} x_i P_x(x_i)$ ex) X=(8,10,12) I===(-2,0,2) $= E[x^2] - E[x]^2$ $= E[x^2] - E[x]^2 = E[x^2] - 2xE[x] + \overline{x}^2 = E[x^2] - E[x]^2$ $= E[x] - E[x]^2$ · 12227 = ~ V[X] = ~

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0-112-11) {22 [1217] C1, C2, C3 -> F:100, B:-100

$$\frac{7}{3}994: 3 B B, BFF, FBF, FFB, BBF, BFB, FBB, FFFF
-300 -100 100 300$$

$$X = [-300, -[00, 100, 300] P(x) = [\frac{1}{8}, \frac{3}{8}, \frac{3}{8}, \frac{1}{8}]$$

$$E[X] = \frac{4}{3}x_i P_X(x) = -\frac{300}{8} - \frac{300}{9} + \frac{300}{8} + \frac{306}{8} = 6$$