مصطنى نفالى نحرى ١٩٨٢٨٨

Subject:

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فضل 4 - آماره احتمال عندسي

$$f(n) = \frac{1}{2} = \frac{1}{2}, \frac{1}{3} = \frac{3}{7}, \frac{1}{3} = \frac{2}{7}, \frac{1}{7} = \frac{1}{7}, \frac{1}$$

$$(-1)(\frac{3}{4}) + (0)(\frac{2}{4}) + 1(\frac{1}{4}) + 3(\frac{1}{4}) = \frac{3}{4} + \frac{3}{4} + \frac{1}{4} + \frac{1}{4}$$

$$f(y) = \begin{cases} \frac{1}{2}(y+1) & 2 < y < 4 \end{cases}$$

$$\Rightarrow \int_{2}^{4} \frac{1}{\Lambda} (y+1)(y) dy = \frac{1}{\Lambda} \int_{2}^{4} \frac{y^{2}}{y^{2}} dy = \frac{1}{\Lambda} \times \frac{y^{3}}{3} + \frac{y^{2}}{2} \Big|_{2}^{4} = \frac{1}{\Lambda} \left(\frac{64}{3} + \frac{16}{2}\right)$$

$$\frac{1}{\Lambda}\left(\frac{3}{3} + \frac{1}{12}\right) = \frac{1}{3}\left(\frac{64 + 24}{3}\right) - \frac{1}{8}\left(\frac{3+6}{3}\right) = \frac{\Lambda\Lambda}{YE} - \frac{1E}{YE} - \frac{VE}{YE} - \frac{37}{42}$$

$$E(X) = o(\frac{1}{125}) + 1(\frac{12}{125}) + \frac{2(48)}{125} + \frac{3(64)}{125} = \frac{300}{125} = \frac{12}{5} = \frac{24}{10} = \frac{214}{10} = \frac{9}{10}$$

$$E(\chi^2) = (\frac{1}{125}) + 1(\frac{12}{125}) + 4(\frac{18}{125}) + 9(\frac{64}{125}) = \frac{780}{125} = 6124$$

$$N=\chi^2$$
 , $U=\chi$ (id) = 62-4

$$F(x) = \begin{cases} 1 + x & -1 < x < 0 \\ F(y) = \begin{cases} 1 - x & -1 < x < 0 \end{cases} \\ -1 & -1 < x < 0 \end{cases}$$

$$F(y) = \begin{cases} 1 - x & -1 < x < 0 < x < 0 \end{cases}$$

$$F(y) = \begin{cases} 1 - x & -1 < x < 0 < x < 0 < x < 0 < x < 0 \end{cases}$$

$$F(y) = \begin{cases} 1 - x & -1 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x < 0 < x <$$

$$E(VU) = \int_{-1}^{3} (x^{3} + x^{4}) dx + \int_{-1}^{1} (x^{3} - x^{4}) dx = \frac{1}{4} + \frac{1}{5} + \frac{1}{4} + \frac{1}{5} = 0$$

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$$\begin{cases} \chi_{1} = 4 & 3 & \text{obside}, & -3\chi_{2} + 2\chi_{1} + 4\chi_{3} = 1 \\ \chi_{2} = 9 & 7 & (-3)(9) + (2(4)) + 3(4) = -7 \\ \chi_{3} = 3 & 5 & (9)(9) + 4(3) + 16(5) = 155 \end{cases}$$

$$\frac{7 - \chi_{1} + 2\chi_{2} - \chi_{3}}{3 + 4(7) + (1(5))} = 36$$

$$F(x,y) = \begin{cases} \frac{1}{\pi}(x+y) & o(x<1, -< y<2) \\ \frac{1}{\pi}(x+y) & o(x<1, -< y<2) \end{cases}$$

$$\frac{E(x) - 1}{3} \int_{-3}^{1} \int_{-3}^{2} x(x + y) dy dx = \frac{1}{3} \int_{-3}^{1} (2x^{2} + 2x) dx = \frac{1}{3} (\frac{2}{3} + 1) = \frac{5}{9}$$

$$E(\chi^2) = \frac{1}{3} \int_{-1}^{1} \int_{-1}^{2} (\pi) (\pi^2 + \pi^2 y) dy dx = \frac{1}{3} \int_{-1}^{1} (2\pi^3) + 2\pi^2 dx = \frac{1}{3} (\frac{1}{2} + \frac{2}{3}) + \frac{7}{18}$$

$$\frac{6^2}{8} = \frac{7}{18} = \frac{25}{81} = \frac{13}{162}$$

$$E(Y) = \frac{1}{3} \int_{0}^{2} \int_{0}^{1} (\pi y + y^{2}) dx dy = \frac{1}{3} \int_{0}^{2} (\frac{1}{2}y + y^{2}) dy = \frac{1}{3} (\frac{1}{2}y + \frac{3}{3}) = \frac{11}{9}$$

$$E(Y) = \frac{1}{3} \int_{0}^{2} \int_{3}^{1} (\pi y^{2} + y^{2}) dx dy = \frac{1}{3} \int_{0}^{2} (\frac{1}{2} y^{2} + y^{3}) dy = \frac{16}{3}$$

$$E(XY) = \frac{1}{3} \int_{0}^{1} \int_{0}^{2} (n^{2}y + ny^{2}) dy dx = \frac{1}{3} \int_{0}^{1} (2n^{2} + \frac{8}{3}n) dx = \frac{2}{3}$$

$$cov(X, Y) = \frac{2}{3} \left(\frac{5}{9} \times \frac{11}{9}\right) = -\frac{1}{81}$$