ESERCIZIO Considerance le seguente dennte congrimte: $P_{\underline{X}}(x_{1}, X_{2}) = \begin{cases} 2/_{10} & \text{per } x_{1} = x_{2} = 1 \\ 1/_{10} & \text{per } (x_{2}, X_{2}) \in -1 \end{cases}$

Ly Colesione
$$P(X_1+X_2 \ge 5)$$

2) Colesione $P(X_1+X_2 \ge 5)$

3) Colcolour P(X1=X2 | X1+X2>5)

2) Colcolone
$$P(X_1 = 1 \mid X_2 = 1)$$

3) Colcolone $P(X_1 = X_2 \mid X_1 + X_1 \ge 5)$

1)
$$P(\chi_1 + \chi_2 > 5) = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}{\chi_1 + \chi_2 > 5} = \frac{\chi_1 + \chi_2 > 5}$$

$$\frac{2}{2}(3,2) + \frac{2}{3}(3,3) + \frac{2}{3}(3,3) = \frac{1}{10} + \frac{1}{10} = \frac{3}{10}$$

$$(1 - 1 | X_2 = 1) = \frac{2}{3}(1,1) = \frac{2}{3}(1,1$$

2)
$$P(X_1 = 1 | X_2 = 1) = \frac{P(4X_1 = 13 \cap 1 | X_2 = 13)}{P(X_2 = 1)} = \frac{P_{\times}(1,1)}{P_{\times}(1,1) + P_{\times}(2,1) + P_{\times}(3,1)} = \frac{P_{\times}(1,1)}{P_{\times}(1,1) + P_{\times}(1,1)} = \frac{P_{\times}(1,1)}{P_{\times}(1,1) + P_{\times}(1,1)} = \frac{P_{\times}(1,1)}{P_{\times}(1,1) + P_{\times}(1,1)} = \frac{P_{\times}(1,1)}{P_{\times}(1,1)} = \frac{P_{\times}(1,1)}{P_{$$

$$P(X_{1}=1 \mid X_{2}=1) = \frac{P(4X_{1}=13 \cap 1 \mid X_{2}=13)}{P(X_{2}=1)} = \frac{P_{\times}(1,1)}{P_{\times}(1,1) + P_{\times}(2,1) + P_{\times}(3,1)} = \frac{2/10}{10 + \frac{1}{10} + \frac{1}{10}}$$

$$= \frac{2}{2+1+1} = \frac{2}{4} = \frac{1}{2}$$

3)
$$P(X_1 = X_2 \mid X_1 + X_2 \geq 5) = P(\frac{1}{1}X_1 = X_2 \leq 1 \leq 1 \leq 1 \leq 5) = \frac{P(X_1 = X_2 \leq 1 \leq 1 \leq 1 \leq 5)}{P(X_1 + X_2 \geq 5)} = \frac{P(X_1 + X_2 \geq 5)}{3/10} = \frac{P(X_1 + X_2 \geq$$

$$= \frac{1 \times (3)}{3 \cdot 10} = \frac{1}{3}$$
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