$$X = (X, X_2)$$

$$X_{2} = \begin{array}{c|cccc} & X_{1} & & & & \\ & z & 4 & 6 & & \\ \hline & 0.14 & 0.28 & 0.28 & \\ 3 & 0.06 & 0.12 & 0.12 & \\ \end{array}$$

$$P(x, = 2) = 0.14 + 0.6 = 0.20$$

$$P(x, = 4) = 0.28 + 0.12 = 0.40$$

$$P(x = 6) = 0.28 + 0.12 = 0.40$$

$$P(x_2=1) = 0.14 + 0.28 + 0.28 = 0.70$$

$$P(x_2=3) = 0.12 + 0.12 + 0.6 = 0.30$$

## MediA

$$E(x_1) = 7.0.20 + 4.0.40 + 6.0.40$$

$$= 0.40 + 1.60 + 7.40$$

$$= 9.40$$

$$E(X_2) = 1 - 0.70 + 3.0.3C$$
  
= 0.70 + 0.9C

$$E(x) = 2^{2} \cdot 0.20 + 4^{2} \cdot 0.40 + 6^{2} \cdot 0.40$$

$$= 0.80 + 6.40 + 14.40$$

$$= 21.6$$

$$\frac{1}{2}(x^{2}) = 1^{2} \cdot 0.70 + 3^{2} \cdot 0.30$$

$$= 0.70 + 2.70$$

$$= 3.40$$

- 21.6 - 13.36

## Sono indipendenti

$$P(X_1=2)$$
  $P(X_2=1) = 0.20 \cdot 0.70 = 0.19$  Vero  
 $P(X_1=4)$   $P(X_2=1) = 0.40 \cdot 0.70 = 0.28$  Vero  
 $P(X_1=6)$   $P(X_2=1) = 0.40 \cdot 0.70 = 0.28$  Vero  
 $P(X_1=6)$   $P(X_2=1) = 0.40 \cdot 0.70 = 0.28$  Vero  
 $P(X_1=2)$   $P(X_2=3) = 0.20 \cdot 0.30 = 0.06$  Vero

$$P(X_1 = 4) P(X_2 = 3) = 0.40 \quad 0.30 = 0.17 \quad \text{Veco}$$
  
 $P(X_1 = 6) P(X_2 = 3) = 0.40 \quad 0.50 = 0.17$ 

Source indipendenti

indipendenti -> COUARIANZA = O

$$COU(X, XZ) = 0$$

$$Cov = E(x_1,x_2) - [E(x_1) \cdot E(x_2)]$$

$$\sum (x_1, x_2) : x_1 \cdot x_2 \cdot (x_1, x_2)$$

$$e(x_1, x_2) = \frac{cov(x_1, x_2)}{\sqrt{Var(x_1) \cdot Var(x_2)}}$$



$$P(y) = p(-1) = 0.19 + 0.12 = 0.26$$

$$P(-3) = 0.28 + 0.12 = 0.40$$

$$p\left(-S\right) = 0.28$$

$$P(1) : 0.06$$
 = 0.06

$$P(y) = P(x) = 0.14 + 0.12 = 0.26$$

$$P(3) = 0.28 + 0.12 = 0.40$$

$$P(5) = 0.28 = 0.28$$

$$P(-1) = 0.06 = 0.06$$

Esercizio Blocco 3