

## PROBABILITÀ E STATISTICA - 10.01.2006

	F1	F2	F3	F4
C1	0,08012	0,45326	0,80258	0,02444
C2	$\frac{2}{9}$	$\frac{4}{9}$	$\frac{9}{64}$	$\frac{27}{64}$
C3	0,577	0,423	0,732	0,268
C4	$\frac{37}{48}$	$\frac{11}{48}$	$\frac{53}{72}$	$\frac{19}{72}$
E1	$p_{X,Y}(0,2) = \frac{1}{15}$	$p_{X,Y}(0,1) = \frac{2}{15}$	$p_{X,Y}(0,1) = \frac{1}{15}$	$p_{X,Y}(0,2) = \frac{2}{15}$
	$p_{X,Y}(0,3) = \frac{2}{15}$	$p_{X,Y}(0,3) = \frac{4}{15}$	$p_{X,Y}(0,3) = \frac{2}{15}$	$p_{X,Y}(0,3) = \frac{4}{15}$
	$p_{X,Y}(1,2) = \frac{2}{15}$	$p_{X,Y}(1,1) = \frac{4}{15}$	$p_{X,Y}(1,1) = \frac{2}{15}$	$p_{X,Y}(1,2) = \frac{4}{15}$
	$p_{X,Y}(1,3) = \frac{2}{3}$	$p_{X,Y}(1,3) = \frac{1}{3}$	$p_{X,Y}(1,3) = \frac{2}{3}$	$p_{X,Y}(1,3) = \frac{1}{3}$
	$\text{cov}(X,Y) = \frac{2}{75}$	$\text{cov}(X,Y) = -\frac{4}{75}$	$\text{cov}(X,Y) = \frac{4}{75}$	$\text{cov}(X,Y) = -\frac{2}{75}$
E2	$T = \frac{3}{4}X_n$	$T = \frac{3}{2}X_n$	$T = X_n$	$T = 3X_n$
	$T$ non distorto	$T$ non distorto	$T$ non distorto	$T$ non distorto
	$MSE(T) = \frac{\theta^2}{2n}$	$MSE(T) = \frac{\theta^2}{2n}$	$MSE(T) = \frac{\theta^2}{2n}$	$MSE(T) = \frac{\theta^2}{2n}$