Probabilità e Statistica - 8 Luglio 2008

	C1	C2	C3	C4	E1	E2
F1	0.7414	$\frac{1}{4}$	0.99645	$\frac{3}{13}$	$c = \frac{1}{3}$ $f_X(x) = 1_{(1,3)}(x)\frac{2x-1}{6}$ $f_Y(y) = 1_{(0,1)}(y)\frac{4-2y}{3}$ $f_{X\|Y}(x\|y) = 1_{(1,3)}(x)\frac{x-y}{4-2y}, \quad 0 < y < 1$ $F_{X\|Y}(x\|y) = \begin{cases} 0 & x \le 1 \\ \frac{(x-1)(x+1-2y)}{4(2-y)} & 1 < x < 3 \\ 1 & x \ge 3 \end{cases}$	$(8.151; 8.249)$ $n = 37$ $(8.13249; 8.26751)$
F2	0.0198	$\frac{3}{2}$	0.99850	$\frac{1}{6}$	$c = \frac{1}{6}$ $f_X(x) = 1_{(1,4)}(x)\frac{2x-1}{12}$ $f_Y(y) = 1_{(0,1)}(y)\frac{5-2y}{4}$ $f_{X\|Y}(x\|y) = 1_{(1,4)}(x)\frac{2(x-y)}{3(5-2y)}, \quad 0 < y < 1$ $F_{X\|Y}(x\|y) = \begin{cases} 0 & x \le 1 \\ \frac{(x-1)(x+1-2y)}{3(5-2y)} & 1 < x < 4 \\ 1 & x \ge 4 \end{cases}$	$(7.15065; 7.24935)$ $n = 37$ $(7.15008; 7.24992)$
F3	0.5892	$\frac{3}{16}$	0.99168	$\frac{3}{11}$	$c = \frac{1}{10}$ $f_X(x) = 1_{(1,5)}(x)\frac{2x-1}{20}$ $f_Y(y) = 1_{(0,1)}(y)\frac{6-2y}{5}$ $f_{X\|Y}(x\|y) = 1_{(1,5)}(x)\frac{x-y}{4(3-y)}, \quad 0 < y < 1$ $F_{X\|Y}(x\|y) = \begin{cases} 0 & x \le 1 \\ \frac{(x-1)(x+1-2y)}{8(3-y)} & 1 < x < 5 \\ 1 & x \ge 5 \end{cases}$	$(8.14243; 8.25757)$ $n = 37$ $(8.15008; 8.24992)$
F4	0.0048	$\frac{1}{2}$	0.98102	$\frac{1}{9}$	$c = \frac{1}{21}$ $f_X(x) = 1_{(1,7)}(x)\frac{2x-1}{42}$ $f_Y(y) = 1_{(0,1)}(y)\frac{8-2y}{7}$ $f_{X\|Y}(x\|y) = 1_{(1,7)}(x)\frac{x-y}{6(4-y)}, \quad 0 < y < 1$ $F_{X\|Y}(x\|y) = \begin{cases} 0 & x \le 1 \\ \frac{(x-1)(x+1-2y)}{12(4-y)} & 1 < x < 7 \\ 1 & x \ge 7 \end{cases}$	$(7.1608; 7.2392)$ $n = 37$ $(7.13249; 7.26751)$