Probabilità e Statistica - 11 Dicembre 2007

	C1	C2	C3	C4	E1	E2
F1	-0.44	3.69678	5814	$\frac{2}{9}$	$k = \frac{3}{70}$ $F_X(x) = \begin{cases} 0 & x < -3 \\ \frac{1}{70}(x^3+27) & -3 \le x < 2 \\ \frac{1}{4}x & 2 \le x < 4 \\ 1 & x \ge 4 \end{cases}$ $\mathrm{P}[X > 2 \mid X^2 > 1] = \frac{35}{68}$ $c = -\sqrt[3]{20}$	$(19.56121; 20,03879)$ $(0.02157; 0.59195)$
F2	-0.32	4.02359	7125	$\frac{1}{8}$	$k = \frac{1}{24}$ $F_X(x) = \begin{cases} 0 & x < -3 \\ \frac{1}{72}(x^3+27) & -3 \le x < 3 \\ \frac{1}{4}x & 3 \le x < 4 \\ 1 & x \ge 4 \end{cases}$ $\mathrm{P}[X > 3 \mid X^2 > 1] = \frac{9}{35}$ $c = -\sqrt[3]{15}$	$(22.90789; 23.89211)$ $(0.05121; 0.59807)$
F3	-0.86	4.30022	8645	$\frac{2}{25}$	$k = \frac{2}{35}$ $F_X(x) = \begin{cases} 0 & x < -3 \\ \frac{2}{105}(x^3+27) & -3 \le x < 2 \\ \frac{1}{6}x + \frac{1}{3} & 2 \le x < 4 \\ 1 & x \ge 4 \end{cases}$ $\mathrm{P}[X > 2 \mid X^2 > 1] = \frac{35}{101}$ $c = -\sqrt[3]{12}$	$(19.43819; 20.16181)$ $(0.02768; 0.32327)$
F4	-0.61	4.54046	10395	$\frac{1}{18}$	$k = \frac{1}{27}$ $F_X(x) = \begin{cases} 0 & x < -3 \\ \frac{1}{81}(x^3+27) & -3 \le x < 3 \\ \frac{1}{3}x - \frac{1}{3} & 3 \le x < 4 \\ 1 & x \ge 4 \end{cases}$ $\mathrm{P}[X > 3 \mid X^2 > 1] = \frac{27}{79}$ $c = -2\sqrt[3]{3}$	$(23.07521; 23.72479)$ $(0.03990; 1.09511)$