

	<p>Si consideri il processo casuale [$x(t)=\psi_i$], dove [ψ_i] è una variabile casuale uniformemente distribuita nell'intervallo [[0,10]]. Si consideri poi il processo [$y(t)=\frac{d}{dt}x(t)$] : :</p>			<p>E' dato il segnale [$x(t)=(\sin(5\pi f_0 t))$]. La sua trasformata di Fourier [$X(f)$]</p>			<p>Nell'ambito della elaborazione numerica dei segnali, abbiamo visto tre tipi di trasformate, denominate DTFT, DFT e FFT. Dire quale delle seguenti affermazioni è vera:</p>			<p>Un sistema LTI a tempo discreto è descritto dal seguente schema a blocchi: La risposta all'impulso del sistema vale</p>			<p>Quando all'ingresso di un filtro numerico viene inviato il segnale [$x[n]=\left(\frac{1}{8}\right)^n u[n]-\frac{1}{16}\left(\frac{1}{8}\right)^{n-1} u[n-1]$] l'uscita vale [$y[n]=\left(\frac{1}{8}\right)^n u[n]$] La</p>			<p>Un processo casuale [$x(t)$] WSS a media nulla, con autocorrelazione [$R_x(\tau)$] uguale a [$1-\frac{\tau}{T}$] per [$\tau <T$] e 0 altrove, viene posto in ingresso ad un sistema lineare e tempo</p>			<p>Un processo casuale WSS [$X(t)$] con spettro di potenza [$S_X(f)=N_0/2$] per [$f <B_X$] e nullo altrove passa attraverso un filtro passa basso ideale con f.d.t. [$H(f)=1$] per [$f <\alpha B_X$],</p>			<p>Sia dato il segnale [$x(t)=\sin(\omega t)$] in cui [ω] è la funzione uguale a [$1-\alpha$] per [$\alpha <1$] e nulla altrove. Si consideri il segnale [$s(t)=\sum_{k=-\infty}^{\infty} x(t-kT)$]</p>			<p>Sia dato un sistema LTI la cui risposta all'impulso vale [$h(t)=3\delta(t)-\delta(t-T)$]. All'ingresso di questo sistema viene posto il</p>			
	Base			Tempo discreto			Processi			Tempo continuo																		
Username	D. 1 /3.7	D. 2 /3.7	D. 3 /3.7	D. 4 /3.7	D. 5 /3.7	D. 6 /3.7	D. 7 /3.7	D. 8 /3.7	D. 9 /3.7	VOTO																		
186689	-1.2	-	3.7	3.7	3.7	-	-	-	-1.2	INS																		
191976	-1.2	-0.9	3.7	-1.2	3.7	3.7	-	3.7	-1.2	INS																		
193487	-	-0.9	3.7	3.7	3.7	3.7	3.7	3.7	3.7	25																		
193948	-1.2	-0.9	3.7	-	-	-1.2	-1.2	3.7	-	INS																		
193963	-1.2	3.7	-	3.7	-1.2	-1.2	3.7	-1.2	3.7	INS																		
205766	-1.2	3.7	3.7	3.7	3.7	3.7	3.7	-	-1.2	20																		
213196	-1.2	3.7	3.7	-1.2	-1.2	-0.4	3.7	-1.2	-1.2	INS																		
213720	-1.2	-0.9	-1.2	-1.2	-1.2	3.7	-	3.7	-1.2	INS																		
213964	-1.2	-	-	-1.2	3.7	-1.2	3.7	-1.2	-0.4	INS																		
215317	-1.2	3.7	3.7	3.7	3.7	-0.4	-	-	-	INS																		
215741	-	-	-	3.7	-	-	-	-	-0.4	INS																		
216649	-1.2	3.7	-1.2	3.7	-1.2	-1.2	3.7	-1.2	-0.4	INS																		
217204	-1.2	-0.9	-1.2	3.7	3.7	-1.2	-1.2	3.7	3.7	INS																		
217216	-1.2	3.7	-1.2	3.7	3.7	-1.2	-1.2	-1.2	3.7	INS																		
217230	-1.2	-0.9	-1.2	-1.2	-1.2	-1.2	-1.2	3.7	3.7	INS																		
217257	-1.2	-1.2	3.7	-1.2	-1.2	3.7	-1.2	-1.2	-1.2	INS																		
218068	-1.2	-0.9	-1.2	-1.2	-1.2	-1.2	-1.2	-0.2	-1.2	INS																		
219027	3.7	-0.9	3.7	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	INS																		
219567	3.7	-	-	3.7	3.7	3.7	-1.2	3.7	-1.2	INS																		
222763	-1.2	3.7	3.7	-1.2	3.7	3.7	-1.2	3.7	3.7	18																		
223039	3.7	-0.9	-1.2	3.7	-1.2	-	-	-	-0.4	INS																		
223095	-1.2	3.7	3.7	3.7	3.7	3.7	-1.2	-	-0.4	INS																		
223255	-	3.7	-	3.7	3.7	3.7	3.7	3.7	3.7	26																		

	Base			Tempo discreto		Processi		Tempo continuo		
Username	D. 1 /3.7	D. 2 /3.7	D. 3 /3.7	D. 4 /3.7	D. 5 /3.7	D. 6 /3.7	D. 7 /3.7	D. 8 /3.7	D. 9 /3.7	VOTO
224186	-1.2	-	3.7	-	-1.2	-	-	-1.2	-0.4	INS
226718	-1.2	-	-	3.7	3.7	-0.4	3.7	3.7	-1.2	INS
227068	3.7	3.7	3.7	3.7	3.7	-0.4	3.7	3.7	-1.2	24
228684	3.7	-	3.7	3.7	-1.2	3.7	-1.2	-	-1.2	INS
228828	-	-0.9	-1.2	3.7	3.7	-0.4	-1.2	-1.2	-1.2	INS
229258	-1.2	3.7	-1.2	3.7	3.7	3.7	-1.2	-0.2	3.7	INS
229435	-1.2	-0.9	3.7	-1.2	3.7	-1.2	-1.2	-1.2	3.7	INS
229798	3.7	-0.9	-1.2	-1.2	-1.2	3.7	-1.2	-1.2	-0.4	INS
229973	3.7	3.7	3.7	3.7	3.7	-0.4	-1.2	-	-	18
231911	3.7	-1.2	-	3.7	3.7	-1.2	-1.2	3.7	-1.2	INS
233918	-1.2	3.7	-1.2	3.7	3.7	3.7	-	-	-	INS
234117	-1.2	-0.9	3.7	3.7	3.7	-0.4	3.7	-1.2	-1.2	INS
234564	-1.2	3.7	3.7	3.7	-1.2	-0.4	-	-1.2	3.7	INS
234599	-1.2	-	-1.2	3.7	-1.2	-1.2	-1.2	-	-0.4	INS
234836	-1.2	-0.9	-1.2	-1.2	-1.2	-1.2	3.7	3.7	-1.2	INS
235017	3.7	-	-1.2	3.7	3.7	-0.4	-1.2	-1.2	3.7	INS
235275	3.7	-1.2	3.7	3.7	3.7	-1.2	-1.2	-1.2	-1.2	INS
235280	3.7	3.7	3.7	3.7	3.7	-1.2	-	-	-1.2	INS
235895	3.7	-	3.7	3.7	3.7	-1.2	3.7	3.7	3.7	24
235909	-1.2	-	-	3.7	3.7	3.7	3.7	-	-1.2	INS
236072	-	3.7	3.7	3.7	3.7	-0.4	-	-1.2	-1.2	INS
236588	-	-0.9	-1.2	3.7	3.7	-0.4	3.7	-	-0.4	INS
236765	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	30L
237802	-1.2	-	3.7	3.7	3.7	3.7	-1.2	-	-0.4	INS
237806	-1.2	3.7	3.7	-1.2	-1.2	-0.4	-1.2	-	-1.2	INS
237937	-	-0.9	-	3.7	3.7	-	-	3.7	3.7	INS
238376	-1.2	-0.9	3.7	3.7	3.7	3.7	-1.2	-	-1.2	INS
238660	-1.2	-0.9	3.7	-1.2	-1.2	-	-1.2	-1.2	3.7	INS
238703	3.7	3.7	-	3.7	3.7	-0.4	3.7	3.7	-	22

[illegible]

	Base			Tempo discreto		Processi		Tempo continuo		
Username	D. 1 /3.7	D. 2 /3.7	D. 3 /3.7	D. 4 /3.7	D. 5 /3.7	D. 6 /3.7	D. 7 /3.7	D. 8 /3.7	D. 9 /3.7	VOTO
246992	-1.2	-	3.7	3.7	3.7	3.7	3.7	3.7	3.7	24
247082	3.7	3.7	3.7	3.7	3.7	-0.4	-	3.7	-0.4	21
247168	-1.2	-0.9	3.7	3.7	3.7	-0.4	3.7	-0.2	3.7	INS
247275	3.7	3.7	3.7	3.7	3.7	-	-1.2	3.7	3.7	24
247312	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	30L
247367	3.7	-	-	3.7	3.7	-	3.7	3.7	3.7	22
247436	3.7	3.7	3.7	3.7	3.7	-1.2	-1.2	3.7	3.7	23
247573	-1.2	3.7	-	3.7	3.7	-	3.7	3.7	3.7	21
247586	-1.2	-0.9	3.7	3.7	3.7	-1.2	-1.2	-1.2	3.7	INS
247665	3.7	-0.9	3.7	3.7	3.7	-0.4	-	-	3.7	18
247725	-1.2	-0.9	3.7	3.7	3.7	3.7	3.7	-	3.7	20
247919	-	3.7	-1.2	3.7	3.7	-0.4	3.7	3.7	3.7	20
247938	-	3.7	3.7	3.7	3.7	-1.2	3.7	3.7	-0.4	20
248119	-1.2	-0.9	3.7	3.7	-1.2	-1.2	-1.2	-1.2	-1.2	INS
248212	3.7	-	-	3.7	3.7	3.7	3.7	3.7	-1.2	21
248223	-	3.7	3.7	3.7	3.7	3.7	-	3.7	-0.4	22
248291	-1.2	-0.9	3.7	-1.2	3.7	-1.2	-1.2	-1.2	-1.2	INS
248717	3.7	3.7	3.7	-1.2	-1.2	-0.4	3.7	-0.2	3.7	INS
249099	3.7	3.7	3.7	3.7	3.7	-0.4	-1.2	-	-	18
249123	-1.2	3.7	3.7	3.7	3.7	3.7	3.7	3.7	-1.2	23
249288	-1.2	-	3.7	3.7	3.7	3.7	3.7	3.7	3.7	24
250360	3.7	-0.9	-1.2	3.7	3.7	-1.2	-1.2	-1.2	-1.2	INS
250405	3.7	3.7	3.7	3.7	-1.2	-	-	-1.2	-1.2	INS
251150	3.7	-	-	3.7	3.7	3.7	-	-1.2	3.7	18
265092	-1.2	-0.9	3.7	3.7	3.7	3.7	3.7	3.7	-1.2	19