FOURIEROV RED			
INTERVAL	SIMETRIČAN		NESIMETRIČAN
PARNOST	PARNA (razvoj po kosinus f-jama)	NEPARNA (razvoj po sinus funkcijama)	NI PARNA NI NEPARNA
a_0	$\frac{2}{L}\int_0^L f(x)dx$	0	$\frac{2}{T}\int_a^b f(x)dx$
a_n	$\frac{2}{L}\int_0^L f(x)\cos\frac{n\pi x}{L}dx$	0	$\frac{2}{T}\int_a^b f(x)\cos\frac{2n\pi x}{T}dx$
b_n	0	$\frac{2}{L}\int_0^L f(x)\sin\frac{n\pi x}{L}dx$	$\frac{2}{T}\int_a^b f(x)\sin\frac{2n\pi x}{T}dx$
$S(x)$	$\frac{a_0}{2}+\sum_{n=1}^{\infty}a_n\cos\frac{n\pi x}{L}$	$\sum_{n=1}^{\infty}b_n\sin\frac{n\pi x}{L}$	$\frac{a_0}{2}+\sum_{n=1}^{\infty}a_n\cos\frac{2n\pi x}{T}+b_n\sin\frac{2n\pi x}{T}$
Parsevalova jednakost	$\frac{a_0^2}{2}+\sum_{n=1}^{\infty}a_n^2+\sum_{n=1}^{\infty}b_n^2=\frac{2}{T}\int_a^b\|f(x)\|^2dx$		

FOURIEROV INTEGRAL			
PARNOST	PARNA	NEPARNA	NI PARNA NI NEPARNA
$A(\lambda)$	$\frac{2}{\pi}\int_0^{\infty}f(x)\cos\lambda x\,dx$	0	$\frac{1}{\pi}\int_{-\infty}^{\infty}f(x)\cos\lambda x\,dx$
$B(\lambda)$	0	$\frac{2}{\pi}\int_0^{\infty}f(x)\sin\lambda x\,dx$	$\frac{1}{\pi}\int_{-\infty}^{\infty}f(x)\sin\lambda x\,dx$
$f(x)$	$\int_0^{\infty}A(\lambda)\cos\lambda x\,d\lambda$	$\int_0^{\infty}B(\lambda)\sin\lambda x\,d\lambda$	$\int_0^{\infty}(A(\lambda)\cos\lambda x+B(\lambda)\sin\lambda x)d\lambda$

LAPLACE	
Laplaceov transformat	$F(s)=\int_0^{\infty}e^{-st}f(t)dt$
Zapis preslikavanja originala u sliku	$f(t)\multimap F(s)$
Linearnost	$\alpha f(t)\multimap \alpha F(s)$

Step funkcija	$u(t) \multimap \frac{1}{s}$	
Eksponencijalna funkcija	$e^{\alpha t} \multimap \frac{1}{s-\alpha}$	
Trigonometrijske i hiperbolne funkcije	$\sin \omega t \multimap \frac{1}{s^2+\omega^2}$	$\cos \omega t \multimap \frac{s}{s^2+\omega^2}$
	$\mathrm{sh}\, \omega t \multimap \frac{1}{s^2-\omega^2}$	$\mathrm{ch}\, \omega t \multimap \frac{s}{s^2-\omega^2}$
Polinomi	$t^n \multimap \frac{n!}{s^{n+1}}$	
Teorem o prigušenju	$e^{-at} f(t) \multimap F(s+a)$	
Teorem o pomaku	$f(t-a)u(t-a) \multimap e^{-as}F(s)$	
Gate funkcija	$g_{[a,b]}(t) = u(t-a) - u(t-b)$	$g_{[a,b]}(t) \multimap \frac{e^{-as}}{s} - \frac{e^{-bs}}{s}$
Deriviranje originala	$f^{(n)}(t) \multimap s^n F(s) - s^{n-1}f(0) - s^{n-2}f'(0) - \cdots - f^{(n-1)}(0)$	
Deriviranje slike	$t^n f(t) \multimap (-1)^n F^{(n)}(s)$	
Integriranje originala	$\int_0^t f(t)dt \multimap \frac{F(s)}{s}$	
Integriranje slike	$\frac{f(t)}{t} \multimap \int_s^\infty F(s)ds$	
Slika periodične funkcije	$F(s) = \frac{1}{1-e^{-sT}} \int_0^T e^{-st} f(t)dt$	
Konvolucija	$(f_1 * f_2)(t) = \int_0^t f_1(\tau) f_2(t-\tau)d\tau$	$(f_1 * f_2)(t) \multimap F_1(s)F_2(s)$
Primjena	Otpor R	
	Induktivitet sL	
	Kapacitet $\frac{1}{sC}$	