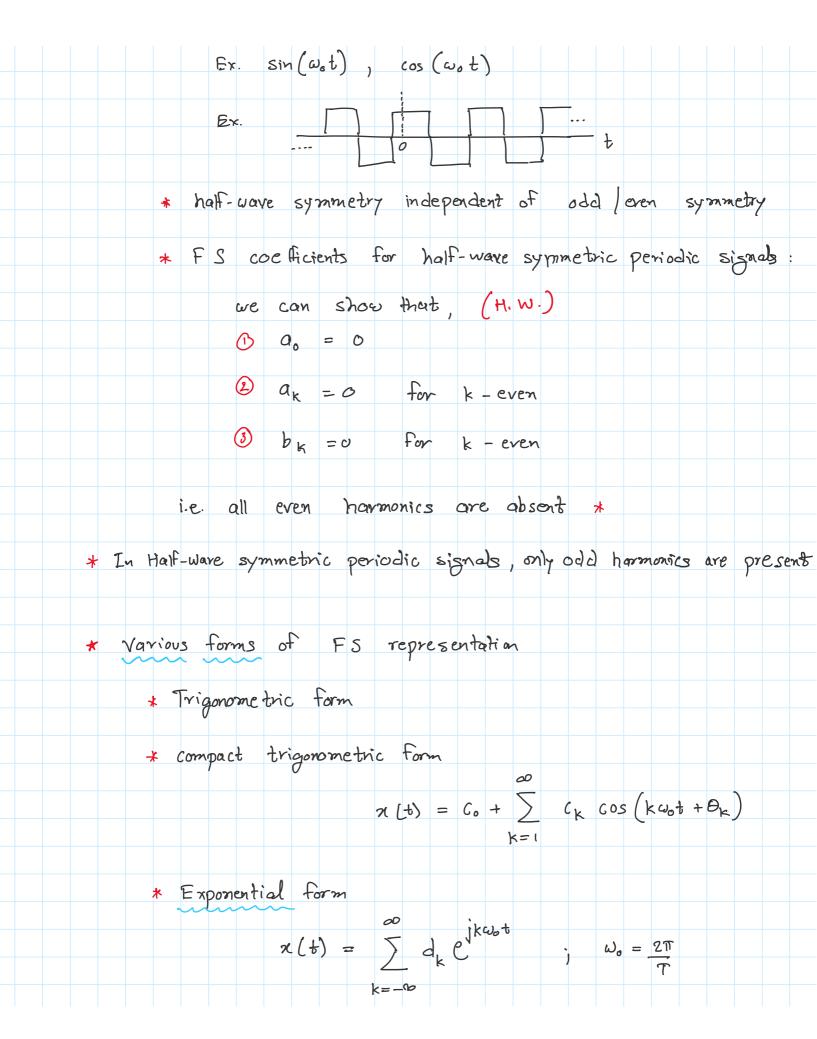
	OYE - 6							
A	Toseph	1 Fourie	· · ·	An ar	naly tic	bheory	of Heat	;" in 182
* 0	dd and	Even	Signals					
* F.	s coeffic	cients for	099	leve	en perio	odic sign	als	
	* 09	ld signal	: 91	=0	* k	= 0, 1, 2,	00	
	* 640	en signal	: b <sub>1</sub>	. =0	¥ k =	1, 2,	20	
47	Square	wave en	cample:					
	7	(t) = {	3,0	< t <	5	with po	eriod T:	= 10
		x(t) =	Y =100	12 5: KIT	in (ku, t)	$= \sum_{k-\text{odd}} \frac{1}{k}$	$\frac{2}{1}$ Sin (	27Kt)
		s this w						
	* Vis	valization	of	partial	FS	synthesi	s / recons	truction
*	Note	on [half	-wave s	Smme.	try:			
	А	periodic	signal	is	said to	have h	alf-wave	symme try



*	$d_{k} = \frac{1}{T} \int \chi(t) e^{-\int x \cdot x_{0} \cdot t} dt$
	$\frac{a_{k}-jb_{k}}{2}, k=1,2,$
d <sub>k</sub> =	$\frac{a_{k}+jb_{-k}}{2}, k=-1,-2,\infty$ $a_{0}, k=0$
*	or thogonality of complex sinusoids
	$\begin{cases} e^{jk\omega_0 t} \\ k \end{cases} \text{ are orthogond.}$ $show \left\langle e^{jk_1\omega_0 t} \\ e^{jk_2\omega_0 t} \right\rangle = 0, k_1 \neq k_2$
*	
	Fourier Spectrum
	dk 1 - magnitude spectrum  Fourier spectrum  Adk - phase spectrum
	* Dual representations *

