X A special class of signals	
CT, complex exponential signals.	
To study this signal, write	
then	
Let us study the terms separately & thou put them together.	
thon put them together.	

Term 1:  C	Simply scales.	the signal
Term 2: 09	t (real exponen	tial)
	() > <i>O</i>	
Tem 3. e j(w	(+ \phi)	
	11 silwt+6	) )
W. How to	plot ejlut+d	<i>,</i>

the (X, L	1) Coordinate	25 of
		•
		the (x,y) coordinate O, Q, (3)?

Q: What is the instantaneous power of x(t) = [c eotej(wt+p)]  Ans:  * CT harmonically related complex exponential (HRCEs)	, 
Ansi	
* CT harmonically related complex exponential (HRCEs)	
* CT hormonically related complex exponential (HRCEs)	
* CT harmonically related complex exponention (HRCEs)	
(HRCEs)	ζЬ
- For any w, how many CT HRCEs	
do we have? Ans:	
- All these signals are periodic	
Their fundamental freq are	_ _