	onstancter!				(0/02/20)	24.
Q1. Find a	the fourier	coefficien waite	to for the for onentials	alt) = unier so	B+ Adir Suios se	nC-20t+09 powsentation
Solution:	SM(Dat +	$\theta) = \frac{1}{2j} \left( \frac{1}{2} \right) $ $\int \sqrt{2} dt - \int \frac{dt}{2} $	e j (sotte	9) ; - e ; j.s.t _ j.b	j (20+0)	)
Hence	x(t) = B-  passing it $x(t) = S$ $t = S$	- 1, e-jú	Rot-jo-	elje	jstoj0	is the faction series reportsentation
		X0= B X_1= X R = D	_1 = je 2j = je for k ‡	₹1,0,1	3	
Q2.	20 = 2	7(4)	= 65(2	++ T)=	$\frac{1}{2}e^{\int e^{\int e^{\int e^{\int e^{\int e^{\int e^{\int e^{\int $	series series fundamental ex+ II) +e -j(2+ II) -t - J/4 -1

Hence  $\chi_{-1} = \frac{1}{2}e^{-j3T/4} = \frac{1}{2}(\frac{1-j}{5})$   $\chi_{+1} = \frac{1}{2}e^{j3T/4} = \frac{1}{2}(\frac{1+j}{5})$  $\chi_{+2} = 0$  for  $\chi_{+1} = 1$