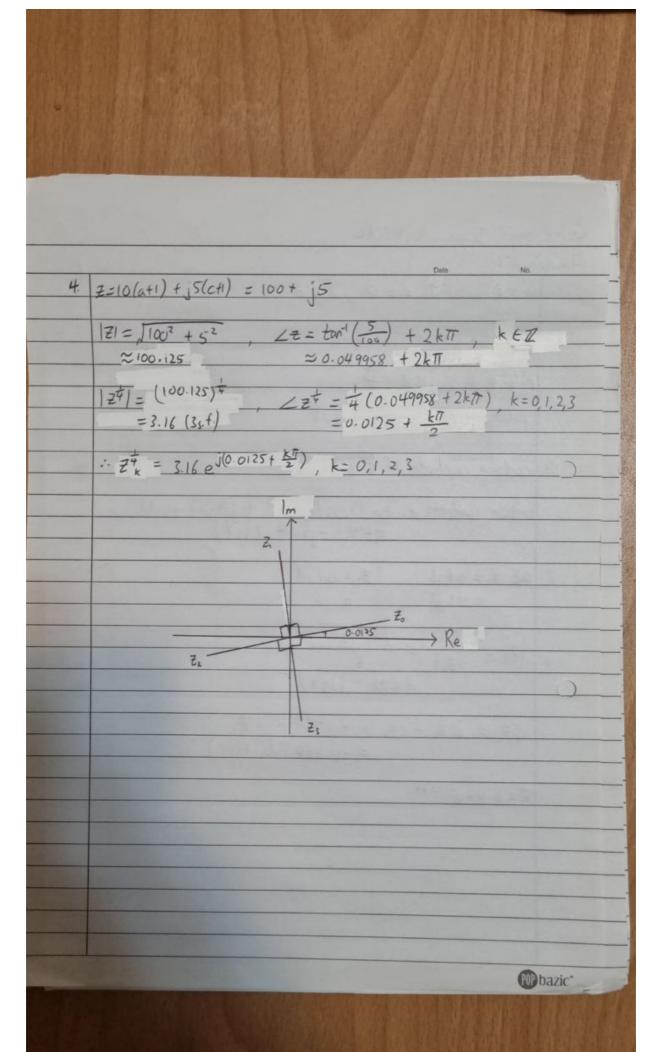
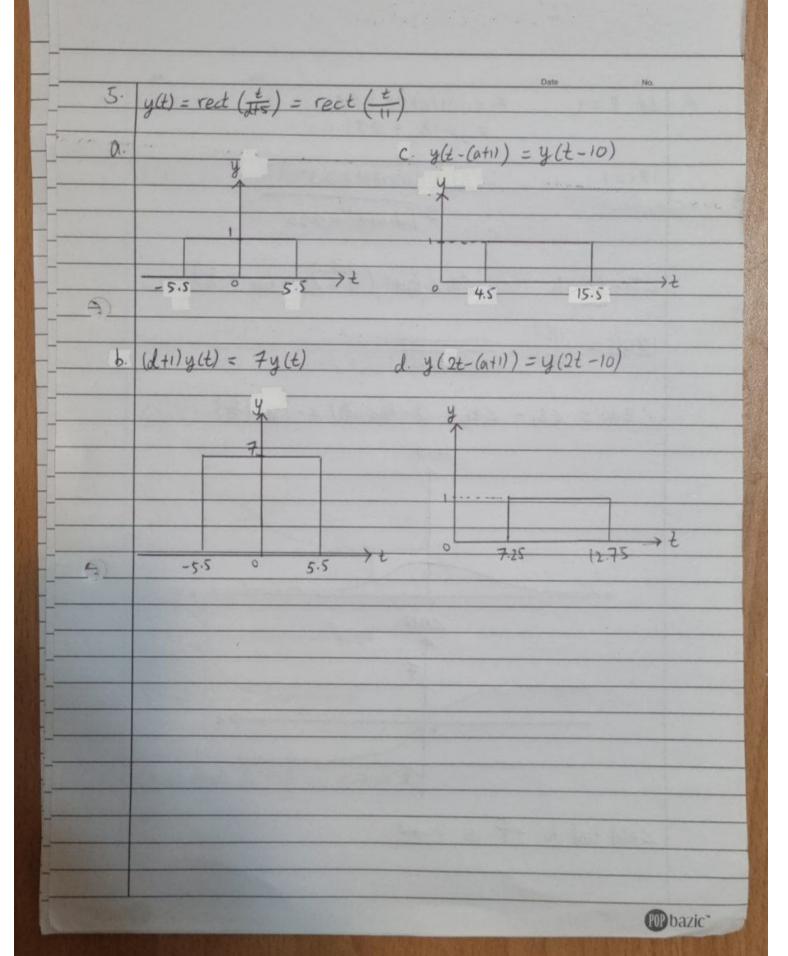
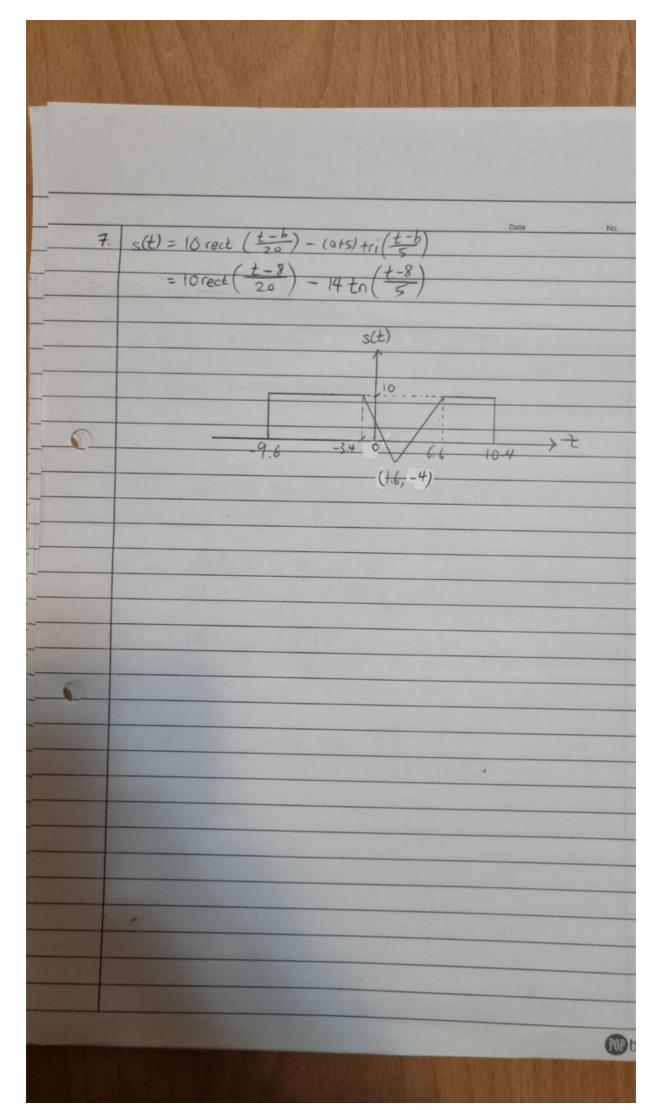
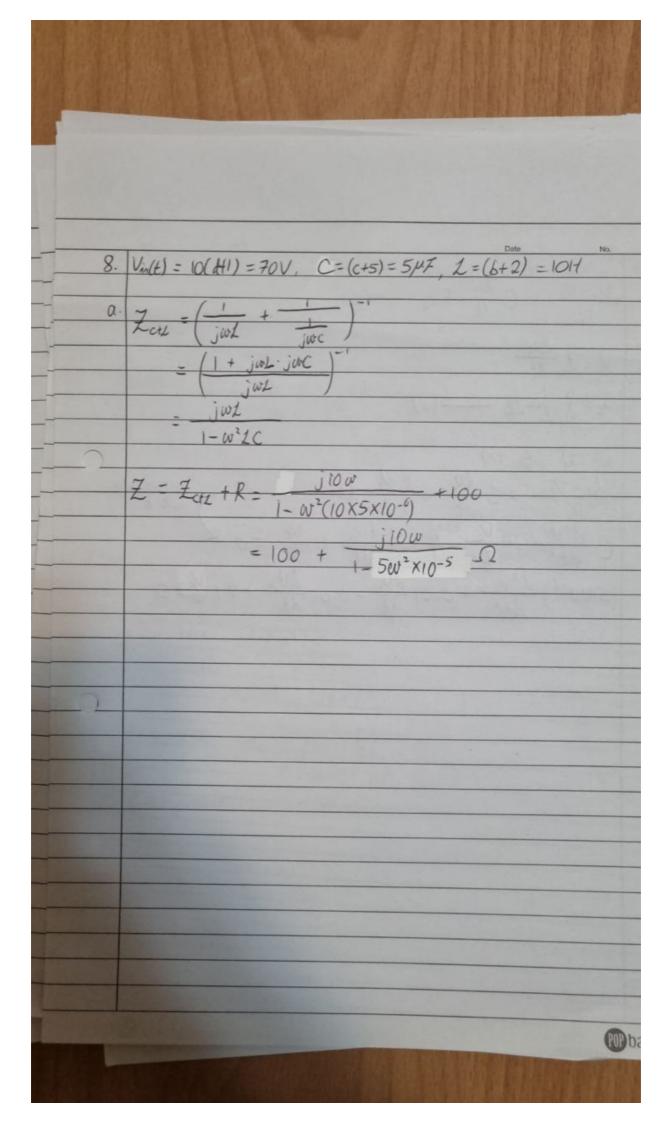
A .	g Xi Jevan AU199806L	
Assignmen		No.
a	=9, b=8, c=0, d=6	
1. 2:	=-c+jd = j6	
3.03		
12	$21=6$ , $LZ=\frac{T}{2}$	Great de
Pol	for coordinates of Z=6ej=	1331
	1010/1137	
= 9. Z =	$=(a+10)e^{-j0.1(b+1)\pi}=19e^{-j0.9\pi}$	
cock	asia a director L = 19 - ( 09T) + 19 = (-09T)	
CATT	esion coordinates of $z = 19\cos(-0.977) + j19\sin(-0.977)$ = -18.1 - j5.87 (3).f.)	8 10 1
3. Let	$z_1 = a + jb$ , $z_2 = c + jd$	
	$= 9 + j8 \qquad = j6$	
17	$1 -  Z_1  - \sqrt{9^2 + 8^2}$	
1E	$1 = \frac{ Z_1 }{ Z_2 } = \sqrt{\frac{9^2 + 8^2}{6}}$	
-	= 6.02  (3s.f.)	
/:	$z = \zeta z, -\zeta z = \tan^{-1}(\frac{8}{9}) - \frac{\pi}{2}$	
	= -0.844  rads  (3s.f.)	
Z=	6.02 ē j 0.844	
		D





SP.		TO THE REAL PROPERTY OF THE PERSON OF THE PE	
	6.	4t 71=1, 2= j0.1(c+1)t+0.5	No.
		= j012 + 0.5	
-			
T-		$ Z_1  = 1$ $ Z_2  = \sqrt{(0.12)^2 + 0.5^2}$	
		= \[\int_0.01\frac{1}{2} + 0.25\]	
1		70.012 10.20	
		12-01 (-11011) -1-1(1)	
	2	$\angle z_1 = 0$ rods $\angle z_2 = \tan^{-1}\left(\frac{0.1t}{0.5}\right) = \tan^{-1}\left(\frac{t}{5}\right)$	
	-	1	
		$ Z(t)  = \frac{ Z_1 }{ Z_2 } = \frac{1}{\sqrt{0.01t^2 + 0.25}}$	
M		$(\pm it) = (\pm 1 - 2 \pm 2 = -\tan^{-1}(\frac{\pm}{5})$	
		12(4)	
		. 1	
		2	
		o	
	0		
		<del>∠2(t)</del>	
		o	
		-1	
		$\angle 2(t)$ tends to $-\frac{\pi}{2}$ as $t \to \infty$ .	
100			
			<b>@</b> baz
4	STATE OF THE PARTY		w ba





	A SHEET MALE	
b. i <sub>0</sub> = i <sub>1</sub> + i <sub>2</sub>	Date No	7
$\frac{V_{in}-V_c}{R}=\frac{c}{dt}+\frac{i_2}{2}$		
$V_c = L \frac{dh_2}{dt}$		
i <sub>2</sub> = \$\frac{1}{2} dt - (2)		
$\frac{\text{Sub (2) into (1)}}{\text{Vin - Ve}} = \frac{\text{dve}}{\text{dt}} + \int \frac{\text{Ve}}{\text{dt}} dt$	differentia curt t	te )
$\frac{R}{C \frac{d^2 V_c}{dt^2} + \frac{1}{R} \frac{dV_c}{dt} - \frac{1}{R} \frac{dV_m}{dt} + \frac{V_c}{L} = \frac{1}{R} \frac{dV_m}{dt} + $	o wit t	
$ \frac{C \frac{d^{2}V_{c}}{dt^{2}} + \frac{1}{R} \frac{dV_{c}}{dt} +$	+0.1 V =0	
	<b>@</b> !	pazic*

