Jom? fet = 5e-1+ (0 (80+) = 5e-7t (ejsot te-Jout) 1(01) = 2.5e(-1+580)t + 2.5e(-1-380)t Composing with a general expresion for a That sinuscidal voltage, VH = KIesit + Keszt When I and so one he complex frequencies this, Complex Provencia 1-7±1801 & $g(t) = (4e^{-2t} - e^{-t}) (o (4t - 95))$ $= (4e^{-2t} - e^{-t}) (o (4t) (o (95)) + sin (4t) sin (95))$ 1(1) (: (co (A-13) = (co A (co B + sin A sin B) (4e-2+-e-t) (-0.087 G(4+) + 0.396 sin (4+) new, substitute for above with - 10 (s(4+) = e j4+ +1e-j4+ sin (4t) = e j4t _ e = j4t 9(t) = -(0.087) \ 4e(-2+4j) + 4e(-2-j4) + e-(1-j4) + e(-1-j4) + + (0.996) / 4e(-2+j4)+ + 4e(-2+j4)+ - e(++j4)+ - e(-1-j4)+ WE 27 most > Complex Incouncing: - - 2 ± j4 , -1 ± j4 A es estimated

	Date: / /
	Page No.
Soln (2)	Test sin (toot ty)
	Given: The second of the secon
	VH= ACB+ (5((++0) - ()
	A=1V, B=0.2 Hz, (=0, 0=45
	Substitute all the values in O:
	de Blissen de a de cape de la sete paragare
	J VH = e0-2+ (g (45-)
	= e6.2+ //2 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	now Using others law:
	itty = Vtt/R
	= <u>c</u> 0.2t
	Aubstitute, I = 0 pt 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
fu:	i(o) = V(o) R
	= e0 = (2.525mA) B
	280VI (1900 1900 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Substitute = 0.10
	i(0.1) = e0.2x01 = (2.576mA) A
	280V4 111 111 111 111 111 111 111 111 111 1
	Substitute: 1 - 0:50
	i (0.5) = e0.2 × 0.5 = (2.751 mA) B
\$2.9g-73.	280VZ
Salm 3)	(th 2h
1301.13	Classes White to Victory & + June 1 - p / March 1
	100mH 3V2
	V ₃ (1)
	A HILL FILE STATES
	Givn; S=-150+j100 st
	V ₂ = 5L-75 U
	time clamation vallege corresponding to 12 =>

Date: / / Page No. Thus, Vs th = 3.23 e-150+ (o (100+ + 113.27.) + B - who I I all M - 15 1 2 4 1- 514 - 12 21 N = T (adjt od1-)10 A . 8 - 171 - 1 175 - 1 or of silver defelded TST 1 1 15 THE THE = 2/(0211/-111/0) +0/(150 + 10/(00 m)) = 11-12 TO - CHA 8 - 8 2