L'Enricher 4mf Cupuitor ul V	
bairen V(t) = Ae-1000 + Be-6000 y Por 720, NO)=500 icos=20A	
a. Determine A, B, i(t)	
inevall i(t) = dy/ = dx/Ac-100+ Be-600+)	
a. 13 -100Ae-100t -600Be-600t	
breudl that ic+)=C (-100 Ae-100+-600Be-600+); C=4mf	
4 (4.103 XC-100 Ac -100+ -600 Be-6004) = leto); +=0	
4(4.10-3) (-100 A -600B) = le(0); Given (, co	1=20A
4 1.10 (-100 A -600 B) =20	
1-100A-600B) = 20/4.10-3	
19-100A-600B=5000	
- 4A+6B=-50 / 1	
ai mile V° Sov, for diriurel Synchron	
seed by 4(1) = Ac-100+ + Bc-600+ b. Reference Pa	nd V
4 not $V_{c}(0) = 50 = Ae^{-100Co} + Be^{-600Co}$ given i shong	
+ 50 = A + B / 2 is $i(t) = 601$	
Courider Eury = 7	(v2(+)
	ict) de +V(0)
then A+6050+A) =-50 bi. Thue, 1/2	5 (6-6c-+)d++e
$\frac{15 A + 300 - 6 A = -50}{68 = 720} \qquad \frac{15 \frac{1}{5}}{570}$	(6++6e+)+e=0; 16=0
ba=70/ B=-20/	+6a)+c=0=>c=-12
	= 12 (1, re ²) v
	((1-c-2)4
Liver andiben is direct lument identify energy stored when & i'lz;	P(2)=V(2) 1(2) 4 6(12) (1+e-2)(1-e-2)
Given P,=75 12 1 R2 = 1552 , C, = C, = 1 =	4The P=70.02 W
1012 5012	
$\frac{1}{2} R_2 = 15$	







