

Elek.Devre II				Ödev No				7			
Adı Soyadı:											
Öğrenci No:		1		0	5	0	7	0			
		0	0			0		0	0		
		1	1			1		1	1		
		2				2		2	2		
		3				3		3	3		
		4				4		4	4		
		5				5		5	5		
		6				6		6	6		
		7				7		7	7		
		8				8		8	8		
		9				9		9	9		

1) Sekildeki devrelerde $H(j\omega) = \frac{V_o(j\omega)}{V_s(j\omega)}$ transfer

fonksiyonunu bulun. Devrenin genlik spektrumunu cizin. Devrenin genliğinin maximum ve minimum olduğu frekansları, ve kesim frekanslarını belirleyin.

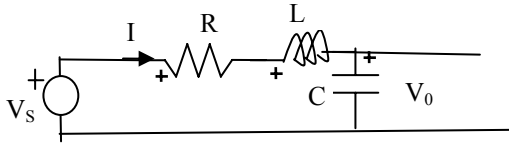
Devrelerde $R=1\Omega$. L, C değerlerini tablodan alın.

MATLAB kullanmanız tavsiye olunur. MATLAB'da $w=0.1$; $py=j*w+2$; $pd=(j*w)^2+4*(j*w)+5$; $hh=abs(py/pd)$

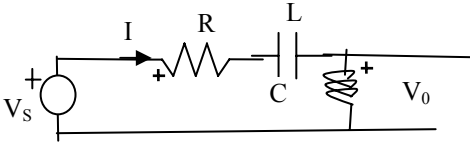
yazarsanız $w=0.1$ için $\left| \frac{jw+2}{(jw)^2+4(jw)+5} \right|$ değerini

hesaplırsınız.

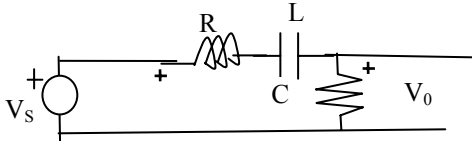
a)



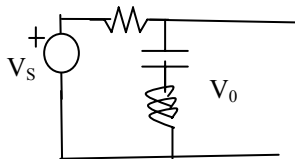
b)



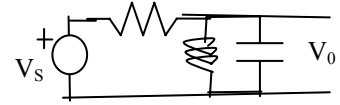
c)



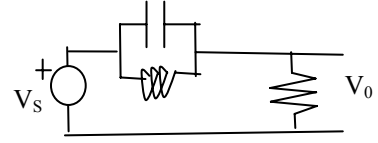
d)



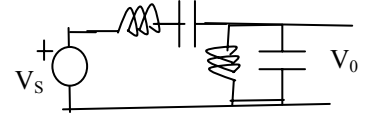
e)



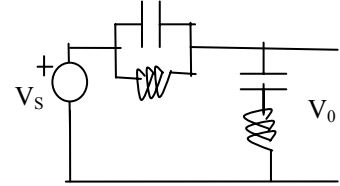
f)



g)



h)



a)

$w_c =$

w	0						∞
$ H(jw) $							



b)

$w_c =$

w	0						∞
$ H(jw) $							



c)

$w_c =$

w	0						∞
$ H(jw) $							



d)
w_c=

w	0						∞
H(jw)							



e)
w_c=

w	0						∞
H(jw)							



f)
w_c=

w	0						∞
H(jw)							



g)
w_c=

w	0						∞
H(jw)							

