The	Higher Technological	Institute	(HTI)	
D	Set Technolog/callha			
Subject:	Electrical circuit theories	Code:	MTE 111	H
Examiner:	Dr. Moataz M. Elsherbini	Time:	90 min	المعرفين المتحال المحالية
Exam	Final term - exam	Term:	6/5/2018	العاشر من رمضان
Type:	Group 61	Term.		

<u>Q1</u>. <u>Find the voltage across C₁ in figure (1) using the following 4 methods:</u>

<u>i.</u>	<u>Mesh loop method</u>	[5 marks]
<u>ii.</u>	Source transformation method	[5 marks]
<u>iii.</u>	super position method	[5 marks]
<u>iv.</u>	Thevenin's method	[5 marks]

Thevenin's method

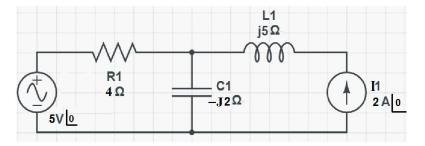


Figure (1)

<u>Q2</u>. <u>Find V_{R5} in figure (2) using the following 3 methods:</u>

i.	Source transformation method	[6 marks]
ii.	super position method	[6 marks]
iii.	Thevenin's method	[8 marks]

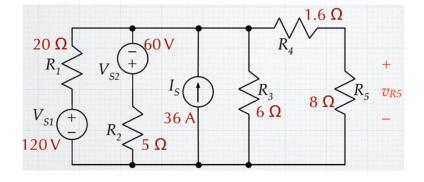


Figure (2)

If you want a thing done well, do it yourself Dr. Moataz Elsherbini