
M R
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مدرس خصوصي
اونلاين
حضوري
يحصل الطالب علي
. مقاطع فيديوهات لشرح المقرر بشكل وافي
. ملخص للمادة Pdf للمذكرة والمراجعة
. محاضرات مباشرة علي برنامج زووم
لمناقشة الأجزاء الغير مفهومة
. تواصل مستمر مع معلم المادة
للتواصل
0567630097
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دوائر كهربية
الكترونيات
ميكانيكا الانشائات
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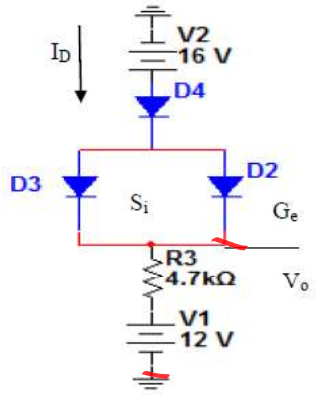
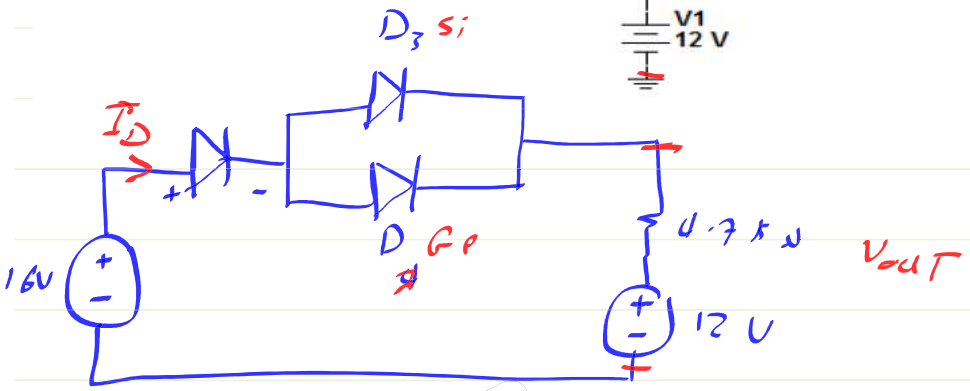
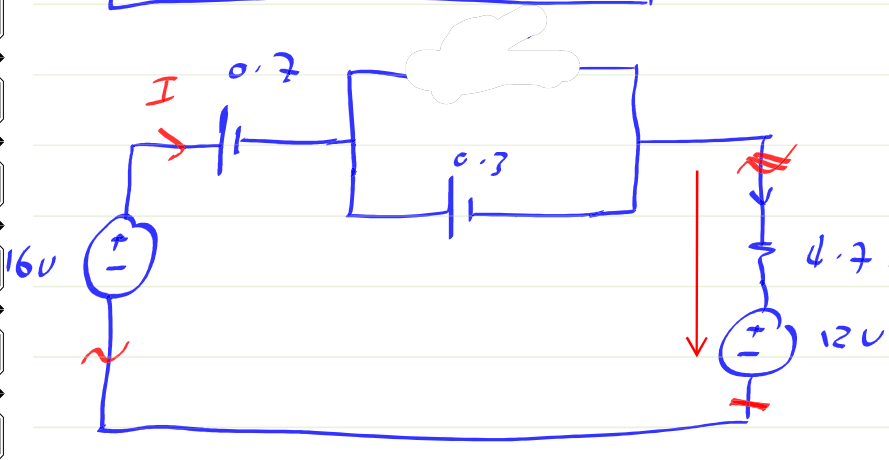
Quiz (1)

Q1: **(Marks 3)**

Determine the level V_o and I_D for the network shown in figure (1)







$V_o = 15V$

$I = \frac{15-12}{4.7+1.3} = \ldots$

$-16 + 0.7 + 0.3 + I_D * 4.7 * 10^3 + 12 = 0$

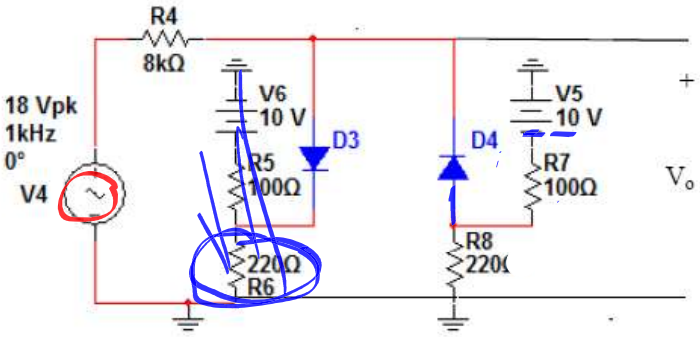
$I_D = \frac{16 - 0.7 - 0.3 - 12}{4.7 * 10^3} = 6.383 * 10^{-4} A$

$V_o = 6.383 * 10^{-4} * 4.7 * 10^3 + 12 = 15 V$

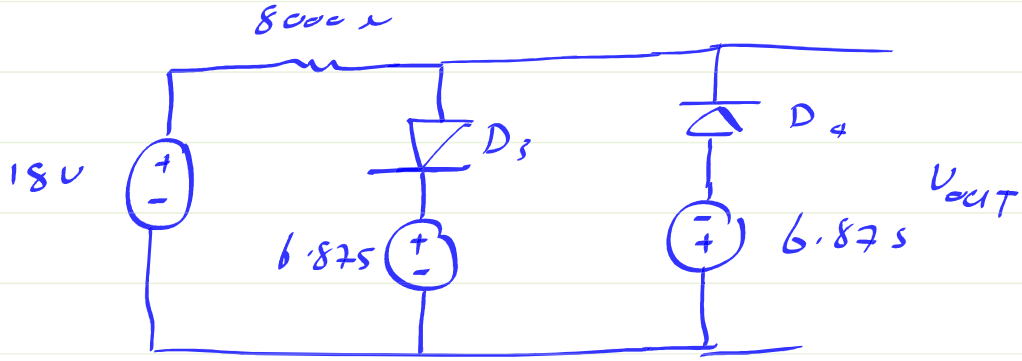
Q2:- (Marks 3)

Sketch the output waveform for the network in fig.(2). **With write solution steps.**

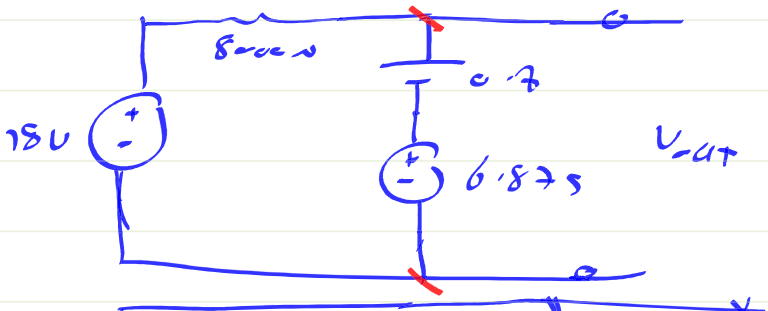
Fig.(2)



$V_{R6} = 10 + \frac{220}{220 + 100} = 6.875\,V$

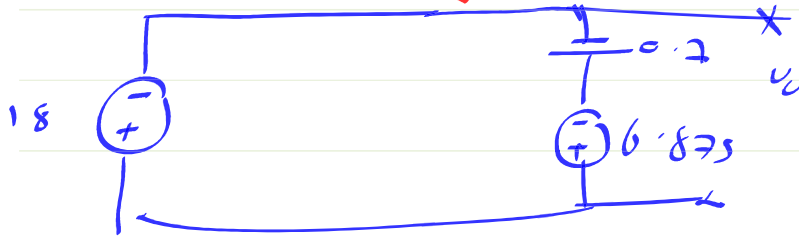


at the +ve cycle of Vin



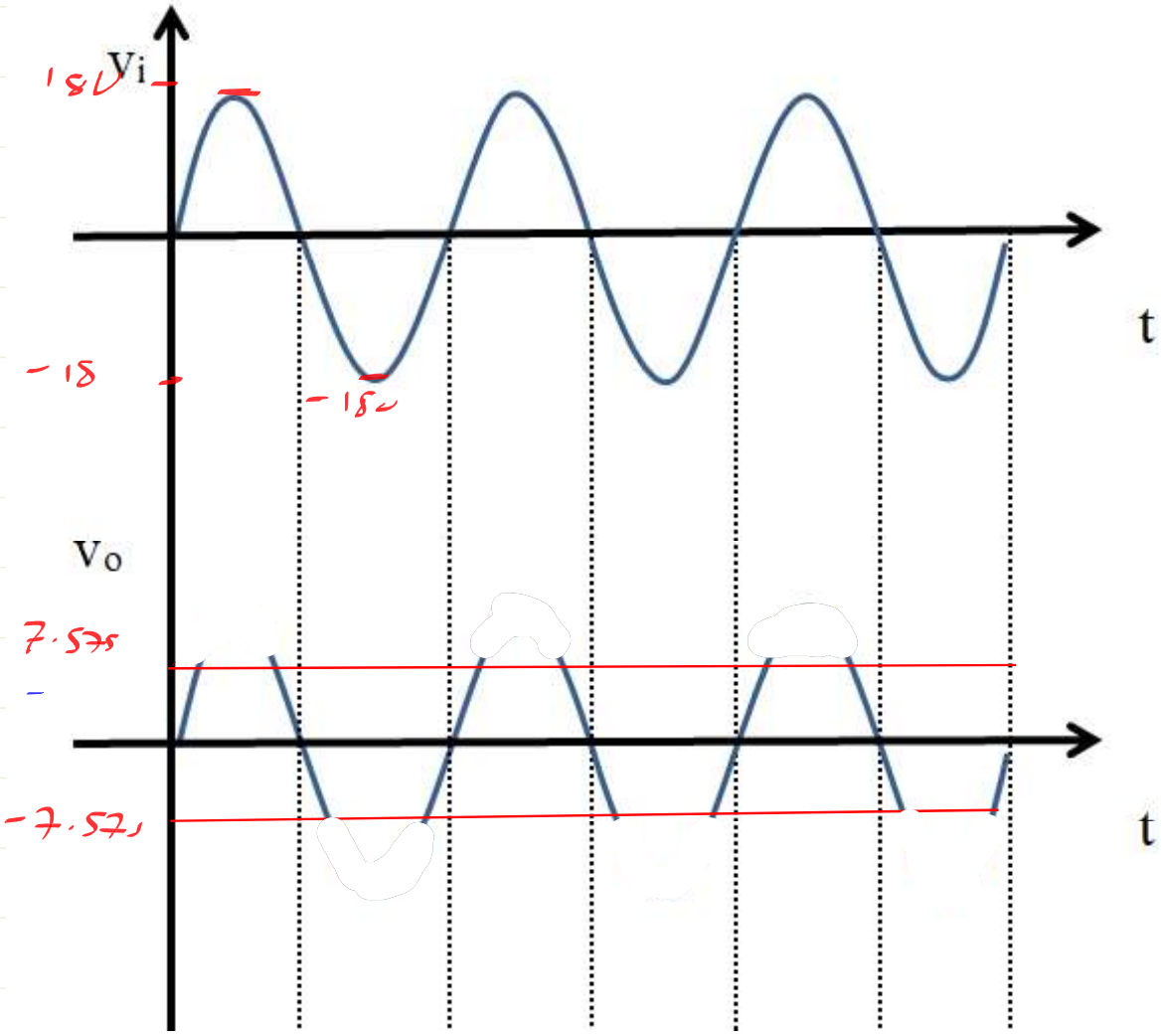
$V_{OUT} = 0.7 + 6.875$

$= 7.575V$



$V_{OUT} = -0.7 - 6.875$

$= -7.575V$


Vi
15V
-15
-15V
t
Vo
7.575
-7.575
t

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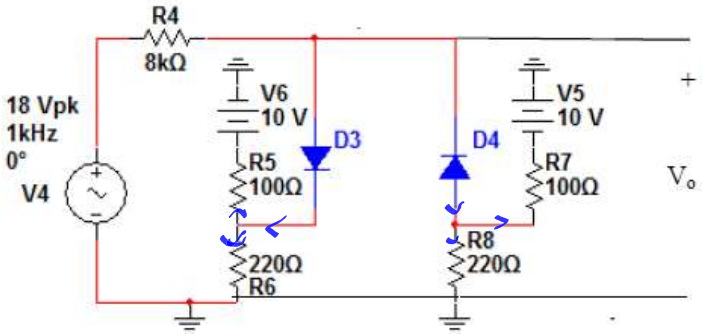
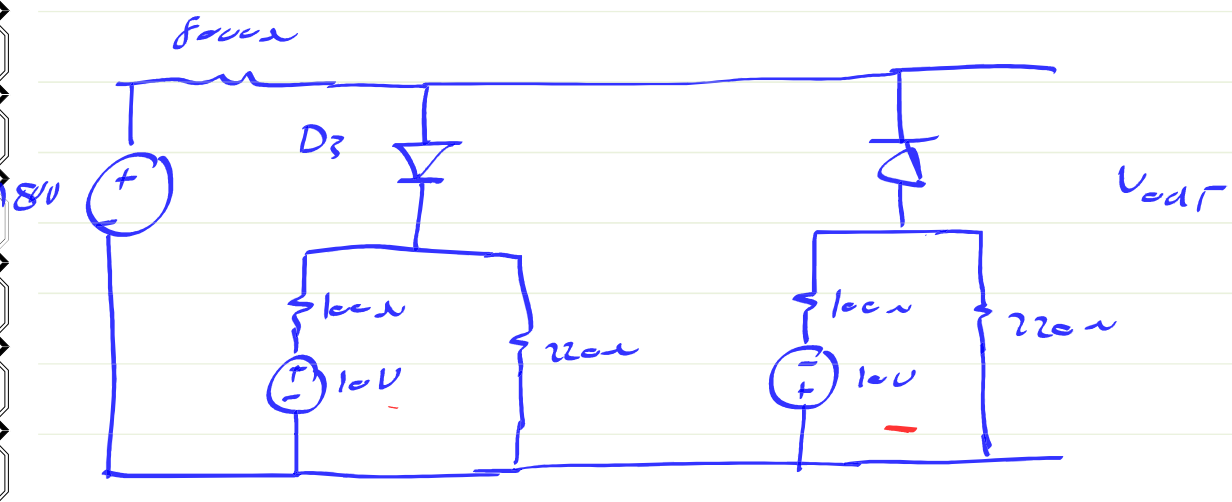
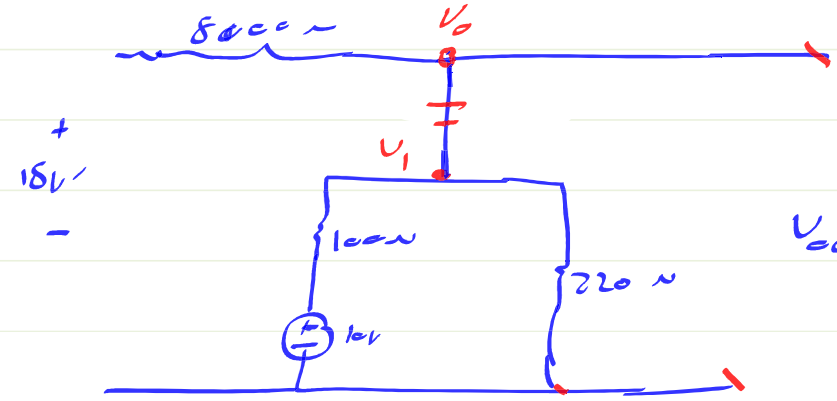
Q2:- **(Marks 3)**

Sketch the output waveform for the network in fig.(2). **With write solution steps.**

Fig.(2)



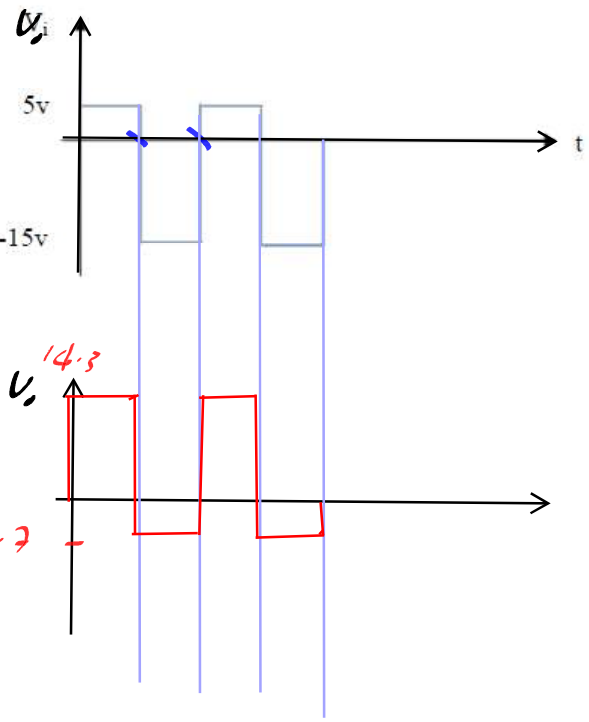


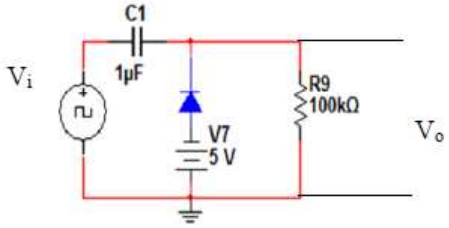


$$\frac{V_o - 18}{8000} + \frac{V_o - 10}{100} + \frac{V_o}{220} = 0$$

Q3:- **(Marks 4)**

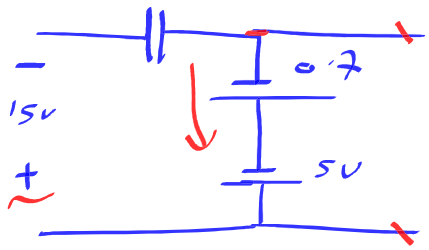
Sketch the output waveform for the network of figure (3) with silicon diode for the input indicated. **With write solution steps.**





- وقت الشحن

$0.5t < T < t$



$V_o = -0.7 - 5 = -5.7V$

$15 + V_c - 0.7 - 5 = 0$

$V_c = -9.3V$

$at\ t < T < 1.5t$

$-5 + (-9.3) + V_{out} = 0$

$V_{out} = 14.3V$