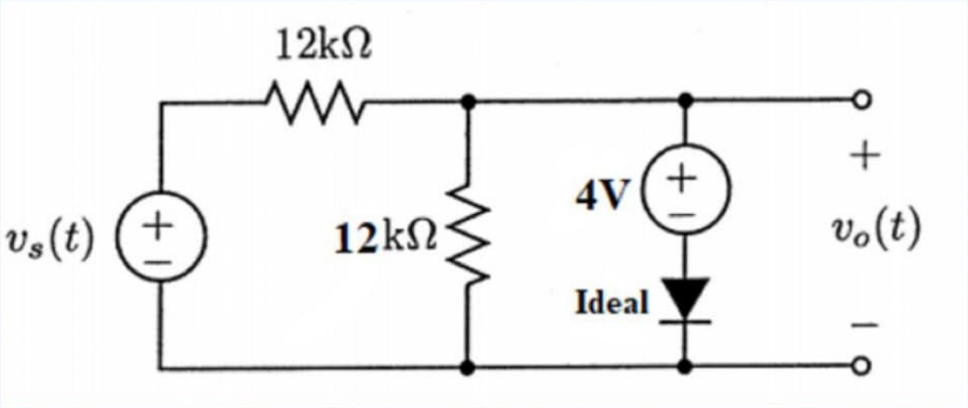
Marked out of 2.00

Time left 0:56:15

Flag question

For the circuit shown , when the diode is on

Vo(t) = [ ] V for Vs(t) [ ] V



Question **2**

Not yet answered

Marked out of 3.00

Flag question

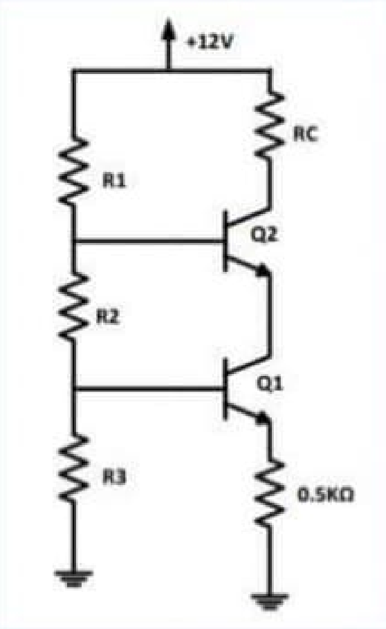
The BJT Transistors shown are in the active region and have $\beta = \infty$. Complete the design of the circuit such that IC2 = 2mA , and VCE1 = VCE2 = 2V. Let R1+R2+R3 = 100KΩ.

1. RC = KΩ

2. R1= KΩ

3. R2 = KΩ

4.R3 = KΩ

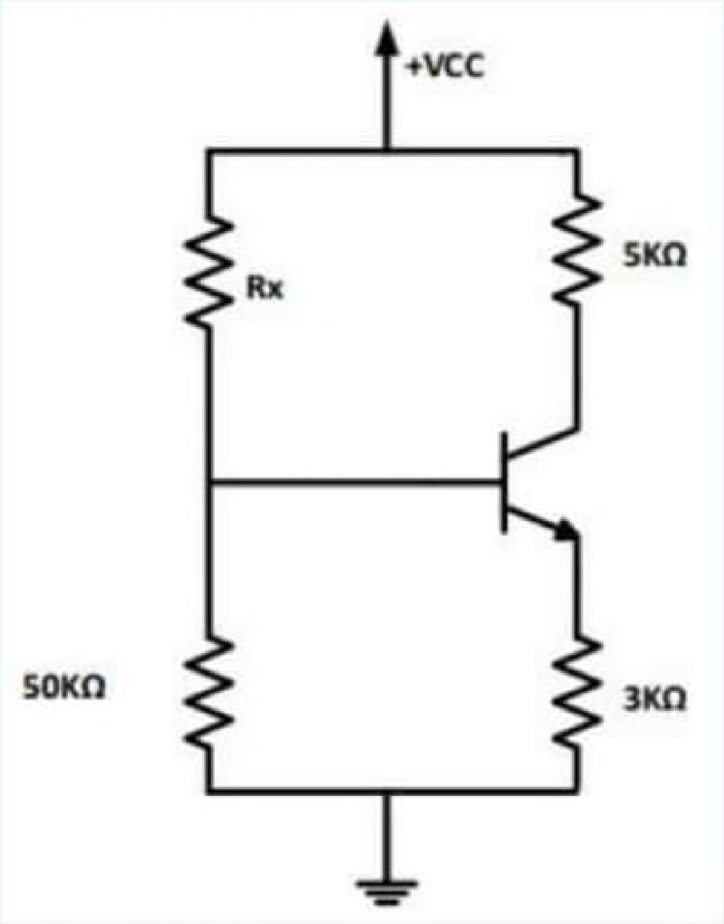


The BJT transistor in the circuit shown is in the active region and has $\beta = 100$. Complete the design of the circuit so that

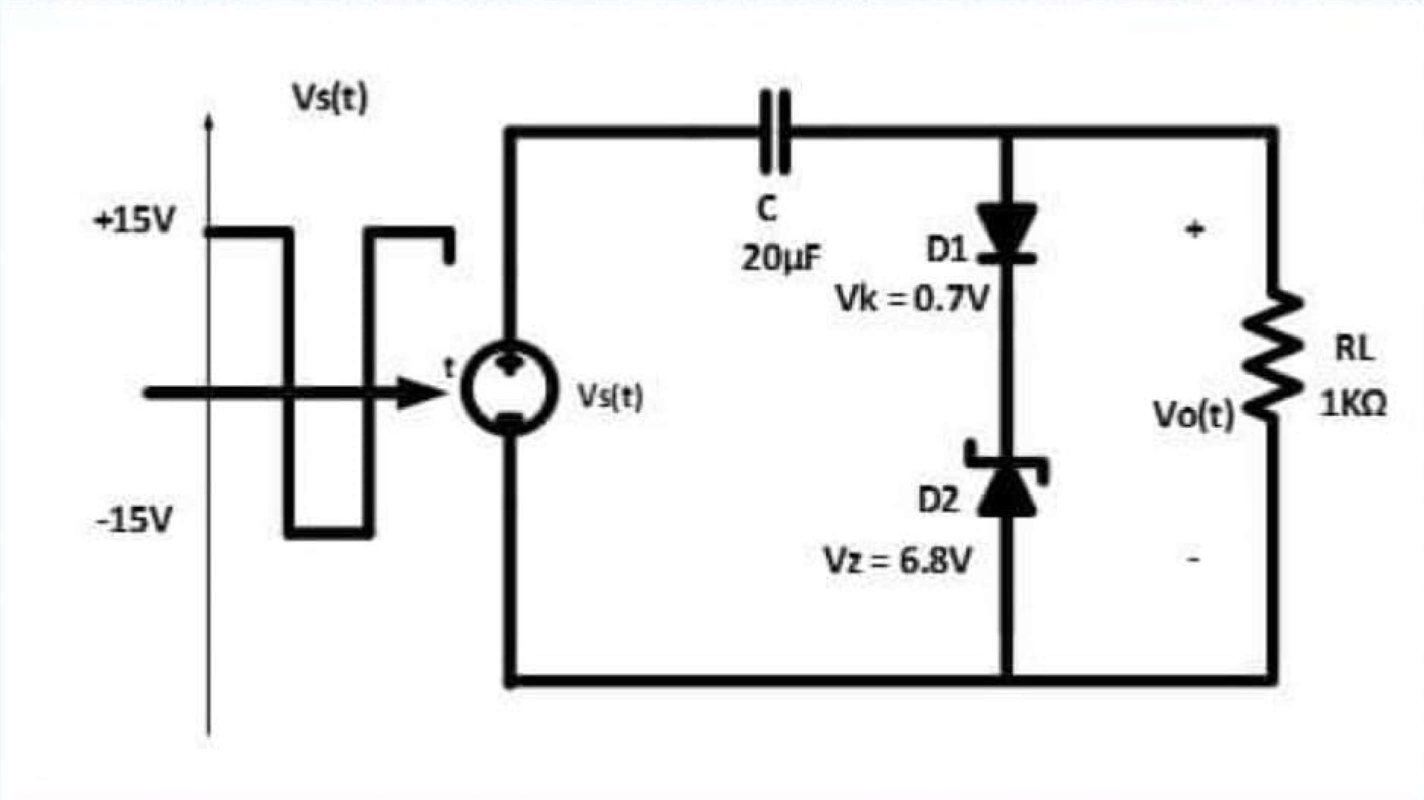
$I_C = 1.28mA$, and $V_C = 8.6V$

1.Rx = [ ] KΩ

2. Vcc = [ ] V

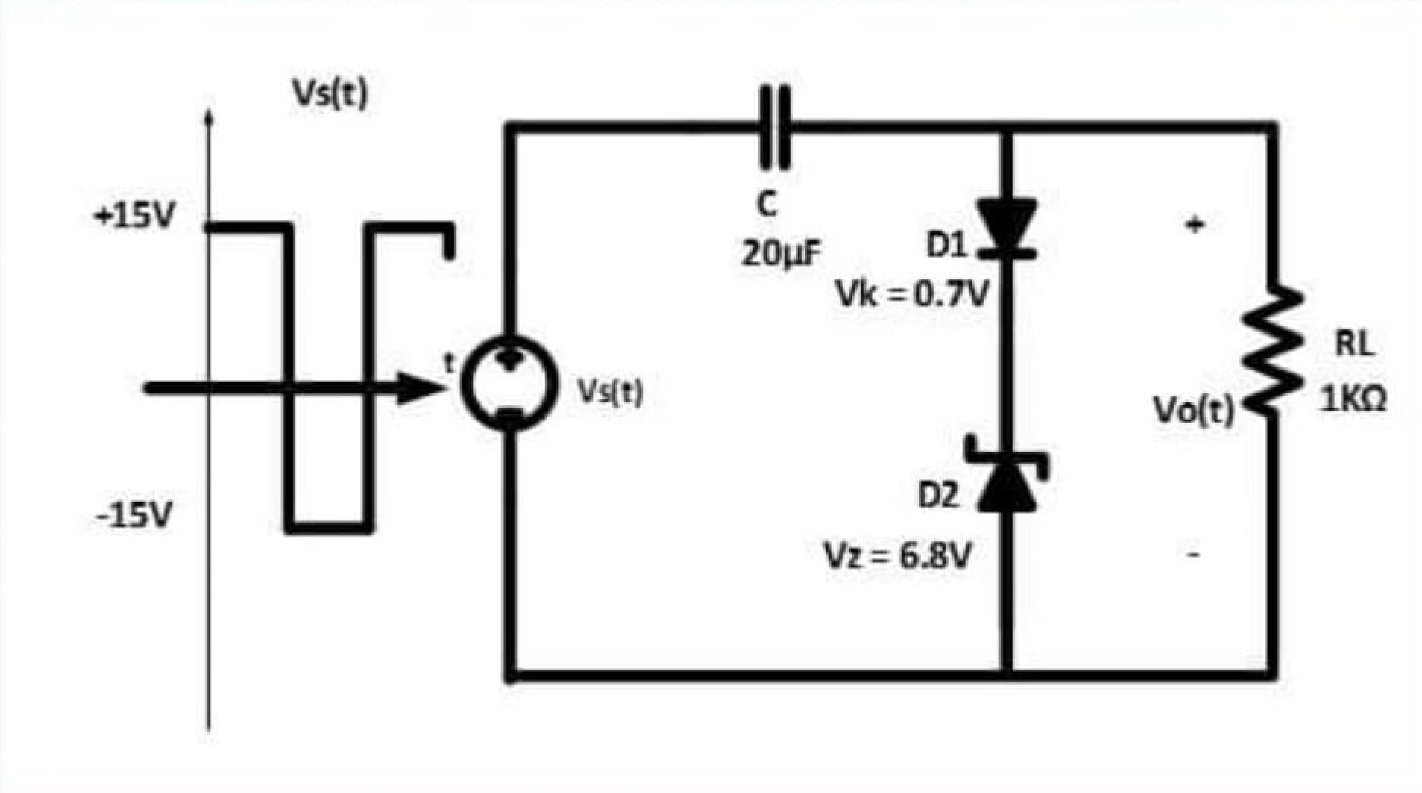


For the circuit shown, what is the minimum value of the output voltage Vo(t) .



- a. None of the listed values
- b. - 14.2V.
- c. - 22.5V.
- d. - 6.8V.
- e. -30V
- f. - 9.1V.
- g. – 15V

For the circuit shown, what is the minimum value of the output voltage Vo(t) .



- a. None of the listed values
- b. - 14.2V.
- c. - 22.5V.
- d. - 6.8V.
- e. -30V
- f. - 9.1V.
- g. – 15V

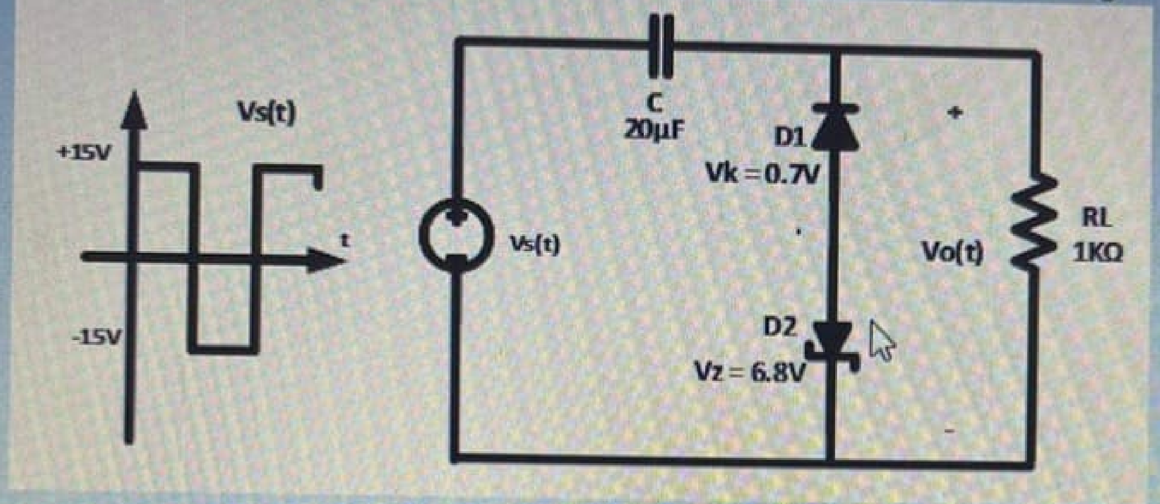
Question 3

Correct

Mark 3.00 out of 3.00

Flag question

For the circuit shown, what is the maximum value of the output voltage Vo(t) .



- a. 14.2V.
- b. 22.5V.
- c. +30V
- d. 9.1V.
- e. None of the listed values
- f. 6.8V.
- g. – 15V

Type here to search

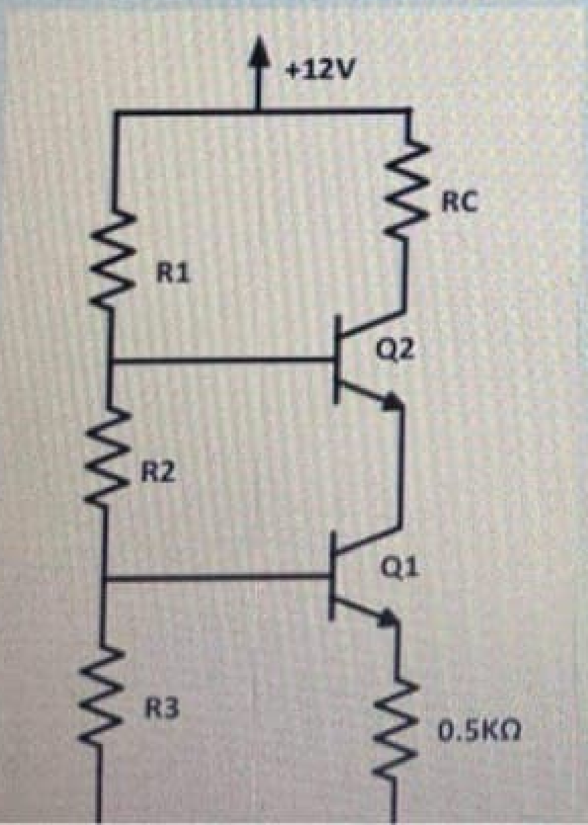
The BJT Transistors shown are in the active region and have $\beta = \infty$. Complete the design of the circuit such that IC2 = 1mA , and VCE1 = VCE2 = 3V. Let R1+R2+R3 = 100KΩ.

1. RC = 16.67 ✖ KΩ

2. R1= 65 ✔ KΩ

3. R2 = 25 ✔ KΩ

4.R3 = 10 ✔ KΩ



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○ f. 6.8V.

○ g. - 15V

Question 4

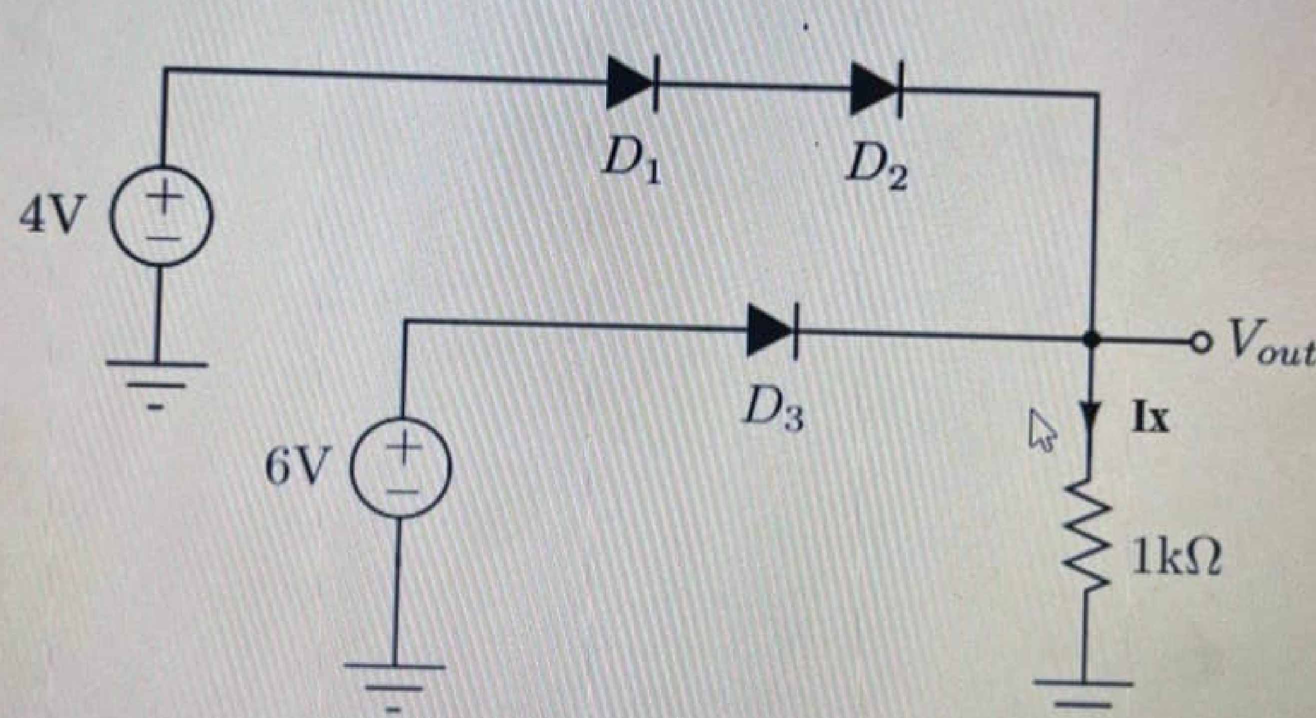
Correct

Mark 3.00 out of 3.00

Flag question

The diodes in the circuit shown have VK = 0.7V

Ix = 5.3 ✔ mA



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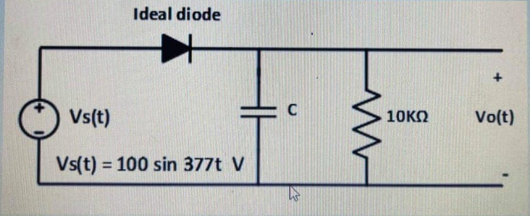
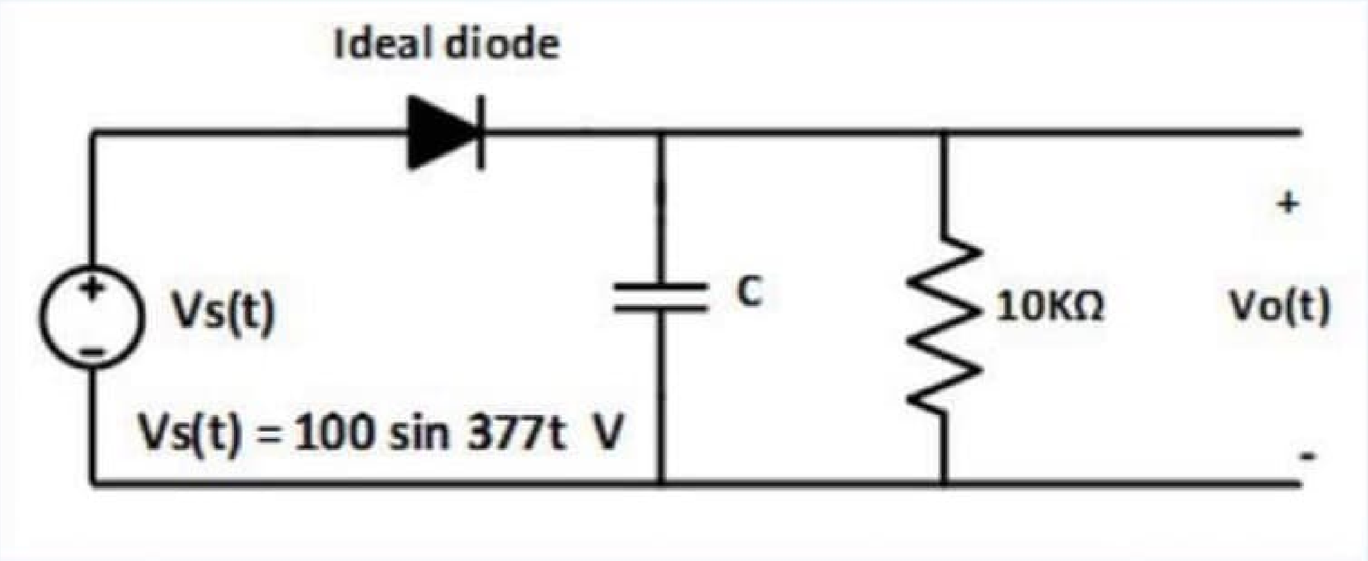
For the circuit shown,the value of the capacitor C that will result in a peak to peak ripple of 4V is

41.67 ✔ μF



For the circuit shown,the value of the capacitor C that will result in a peak to peak ripple of 1V is [ ] µF



The diodes in the circuit shown have VK = 0.7V

Ix = [ ] mA