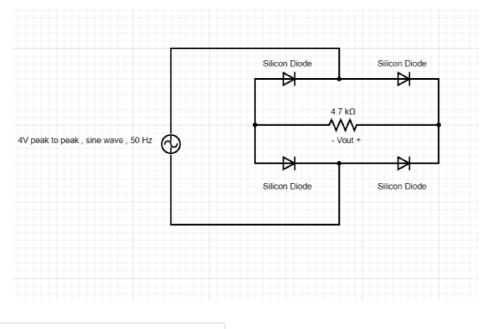


Incorrect

Mark 0.00 out of 1.00

1. Given is a circuit of bridge rectifier made using 4 Silicon diodes. The Silicon diodes have a cut-in voltage of 0.7 V but are ideal otherwise. The peak value of voltage drop appearing across the $4.7~\mathrm{K}\Omega$ resistor in Volts (V) is equal to .



Answer: 1.2

The correct answer is: 0.6

>

Question 2

Correct

Mark 1.00 out of 1.00

2. An Oscillator circuit has been designed using an **Ideal** Op-Amp and **Ideal** diodes as shown in the figure. The Upper Trip Point and Lower Trip Point for the circuit in Volts (V) respectively are .

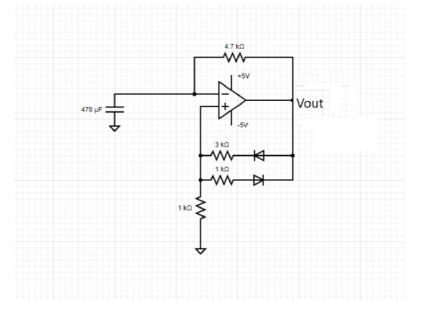


Figure 2: Oscillator circuit

- a. 1.25 and -1.25
- Ob. -2.5 and 1.25
- (a) c. 1.25 and -2.5
- Od. 2.5 and -2.5

Your answer is correct.

The correct answer is: 1.25 and -2.5

Question 3

Mark 0.00 out of 1.00

3. The figure shows a circuit designed using an Ideal Op-Amp. The Silicon diode used in the circuit has a cut-in voltage of 0.7 V but is otherwise **ideal**. The peak value of the voltage appearing across the 4.7K Ω resistor in Volts (V) is equal to .

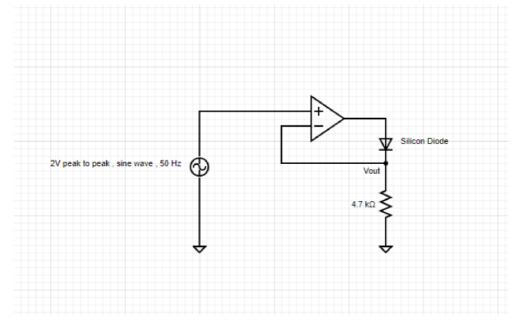


Figure 3: A very nice circuit

Answer: 2

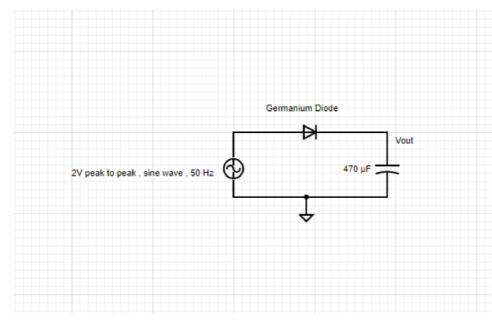
The correct answer is: 1

Question 4

Correct

Mark 1.00 out of 1.00

4. The figure shows a circuit designed using an Ideal Op-Amp, a Germanium Diode and a 470 uF capacitor. The Germanium diode used in the circuit has a cut-in voltage of 0.3 V but is otherwise **ideal**. The V_{out} in **steady state** is .



- a. A **D.C.** signal with some negative amplitude
- b. Positive Half Cycle of Sine Wave only.
- o. Negative Half Cycle of Sine Wave only.
- (a) d. A **D.C.** signal with some positive amplitude.

Your answer is correct.

The correct answer is: A **D.C.** signal with some positive amplitude.

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