AEC Test4

20001003100@jcboseust.ac.in Switch account

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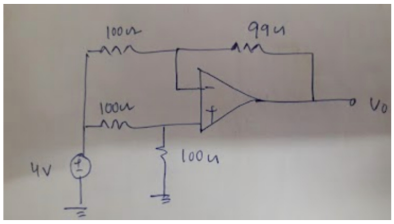
The input to the differentiator circuit is a sinusoidal voltage of peak value 8mV and frequency 1kHz. Find the output voltage if R =100kΩ and C =1μF 1 point

- -πcos(2000πt) Volts
- -2πcos(1000πt) Volts
- -0.8πsin(2000πt) Volts
- -1.6πcos(2000πt) Volts

The differential voltage gain and CMRR of an opamp when expressed in dB are 110dB and 100dB respectively. Determine the common mode gain. 1 point

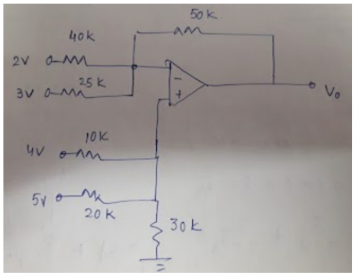
- 24dB
- 10dB
- 6.5dB
- 20dB

For the given circuit find Vo. 1 point



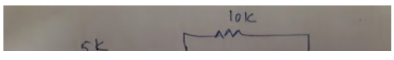
- 0.02V
- 0.2V
- 2V
- 0.04V

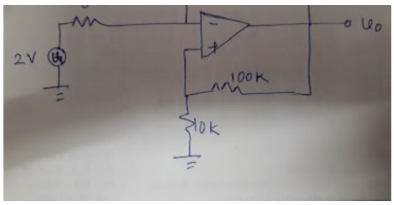
Find the output voltage of the given circuit. 1 point



- 4V
- 6.568V
- 12.656V
- 16.765V

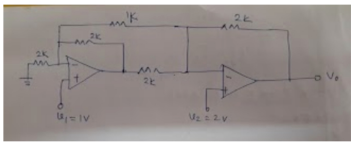
Find the output voltage of the given circuit. 1 point





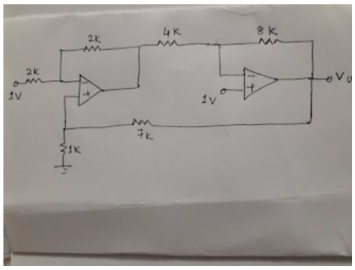
- -5.5V
- -6.5V
- 6.5V
- 5.5V

For the given circuit find Vo. 1 point



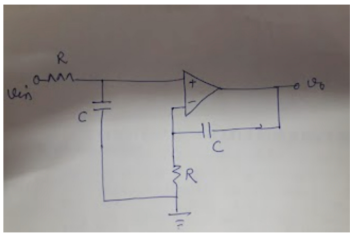
- 5V
- 2V
- 6V
- 4V

Find the output voltage of the following circuit shown below, assume ideal opamp. 1 point



- 8/3 V
- 4V
- 10/3 V
- 4/3 V

Find the expression of output voltage Vo(S). 1 point



- (1/RCS)*Vin(S)
- -RCSVin(S)
- RCSVin(S)
- -(1/RCS)*Vin(S)

Find the expression of output voltage Vo(S). 1 point

Captionless Image

- (1/RCS)*Vin(S)
- 2RCSVin(S)
- (2/RCS)*Vi(S)
- -2RCSVin(S)

A triangular wave input of 6V peak to peak magnitude and frequency of 2MHz is applied to a voltage follower. What is the slew rate of the opamp. 1 point

- 20V/μs
- 30V/μs
- 24V/μs
- 34V/μs

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