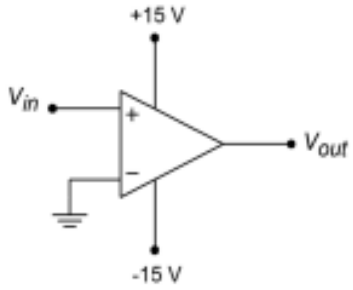
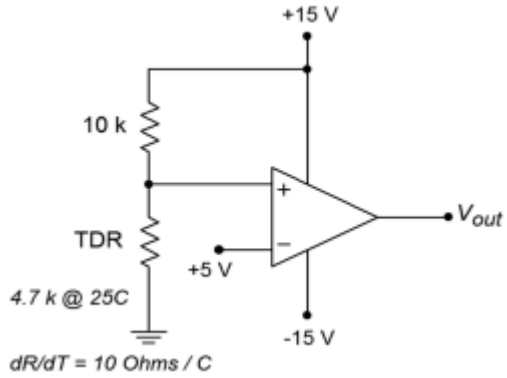
LINEAR INTEGRATED CIRCUITS QUESTION BANK

UNIT-1

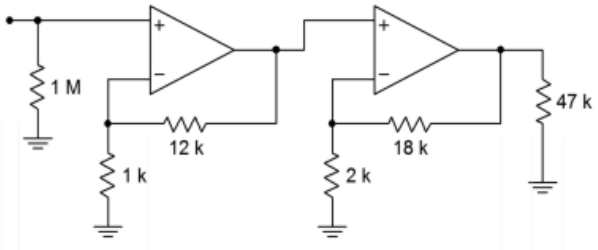
1) List out features of ideal op amp.
2) Draw circuit diagram of inverting amplifier and write equation for its transfer function.
3) Draw circuit diagram of non inverting amplifier and write equation for its transfer function.
4) Write equation for output voltage in a summing amplifier.
5) Circuit diagram shown. What is output voltage for input voltage 0V, 1V and -2V.



6) What is the value of temperature dependent resistor at trip point? Refer circuit diagram shown below.



7) For the circuit shown, what is the output voltage if input is -52dbV



8) Design a inverting amplifier with a gain of 14db and input impedance of 10Kohm
9) Design a summing amplifier such that channel 1 has a gain of 10, channel 2 has a gain of 15 and channel 3 has gain of 5. The minimum channel input impedance should be 1Kohm
10) For the circuit shown below, write equation for output voltage