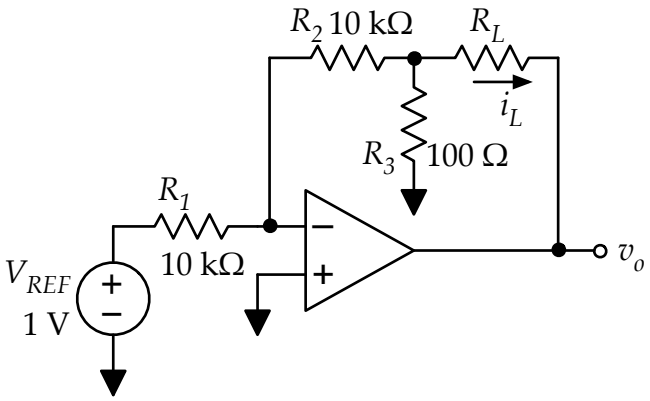
EE 230 — HW 1.9 Name_____

For the circuit shown below, V_{REF} is a fixed DC reference voltage, and the op amp is ideal.



- Calculate i_L and v_o, if R_L = 100 Ω.

  i_L =_____; v_o = _____

- Calculate i_L and v_o, if R_L = 500 Ω.

  i_L =_____; v_o = _____

- Calculate i_L and v_o, if R_L = 1 kΩ.

  i_L =_____; v_o = _____

- What value of R_L will give an output voltage of –15 V while keeping i_L at the same level found in the previous calculations.

  R_L = _____