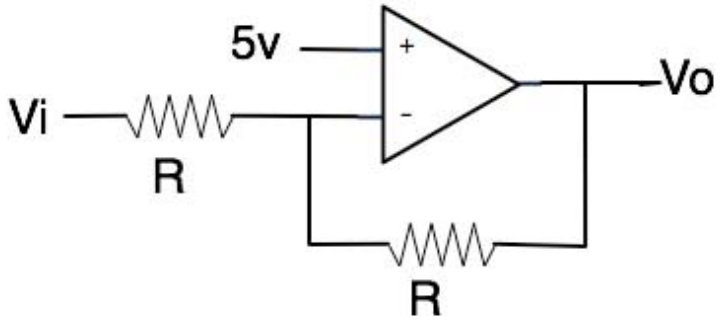
Problem Wk.8.3.3: Op Amp practice

Part 1: Op Amps

1. Consider the following circuit:



Note that both resistors have the same value.

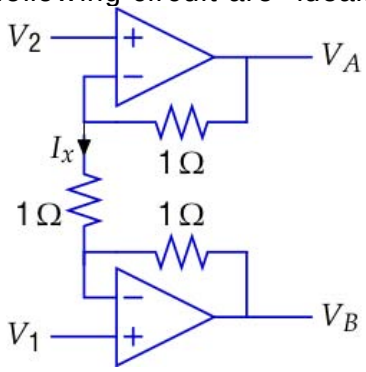
If V_i = 4, then V_o =

If V_i = 8 then V_o =

If V_i = 10 then V_o =

Part 2: Op Amps

1. Assume the op-amps in the following circuit are "ideal."



Determine the current I_x when $V_1 = 1\,Volts$ and $V_2 = 2\,Volts$.

Amps (as decimal number)

Determine the voltage V_A when $V_1 = 1\,Volts$ and $V_2 = 2\,Volts$.

Volts (as decimal number)

Determine a general expression for V_A in terms of V_1 and V_2. Enter the coefficients as decimal numbers:

V_A = [ ] * V_1 + [ ] * V_2

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